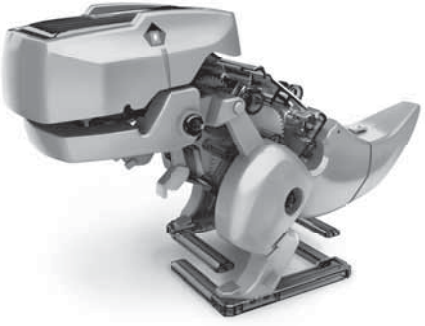
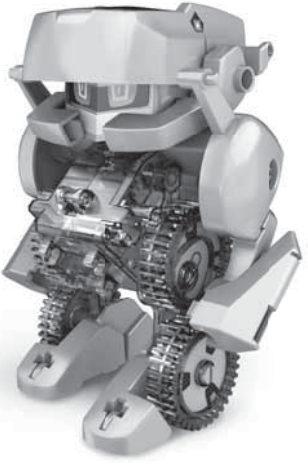
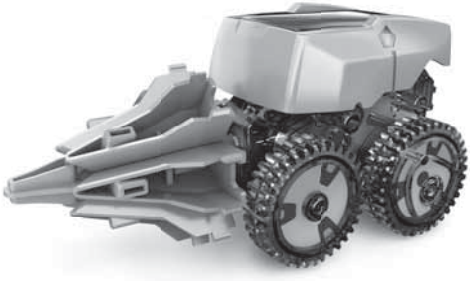
4 in 1 TRANSFORMING SOLAR ROBOT







Assembly & Instruction

Manual

CONTENTS

Product Introduction P.1

Tool You May Need P.1

Mechanical Parts List P.1

Plastic Parts P.2

Hints P.2

Mechanical Assembly

- Solar Module P.3
- Gear Box P.5
- Drill Vehicle P.10
- T-Rex P.14
- Rhino Beetle P.18
- Robot P.25

Decoration P.32

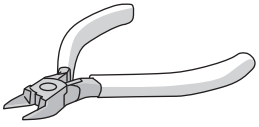
It's Time To Have Some FUN ! P.33

Transforming Solar Robot

Product Introduction

The transforming solar robot is completely solar-powered so you never need to buy batteries. Not only will it provide your child with a new understanding of solar power as a source of renewable energy, but will also get your kids outdoors for some wholesome fun in the sun. This kit gives your child the option to easily transform between one of four different modes: Robot– walking legs as well as moving wheels, Rhino Beetle – 6 walking legs as well as moving jaws, T-Rex - 2 walking legs and moving jaws, and Drill Vehicle – similar to a miner's driller/drilling bit and moving wheels. If your children are glued to smart-phones, give them an opportunity to acquire solar power knowledge, learn about mechanical transmissions, and get them outside to play. Amazingly, you might find yourself engaged in conversation with your child, thanks to their newly acquired "expertise"!

Tool You May Need



Diagonal Cutter

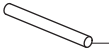
Mechanical Parts List

P1 1 pc
Pinion Gear
(Small)

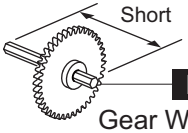
P2 1 pc
Pinion Gear
(Big)

P3 3 pcs
Gear
(Yellow)

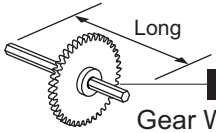
P4 1 pc
Gear
(Red)



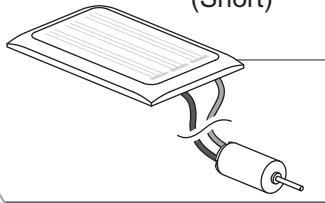
P5 3 pcs
Round Shaft



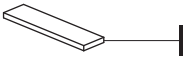
P6 1 pc
Gear With Shaft
(Short)



P7 1 pc
Gear With Shaft
(Long)



P9 1 pc
Motor With Solar Panel

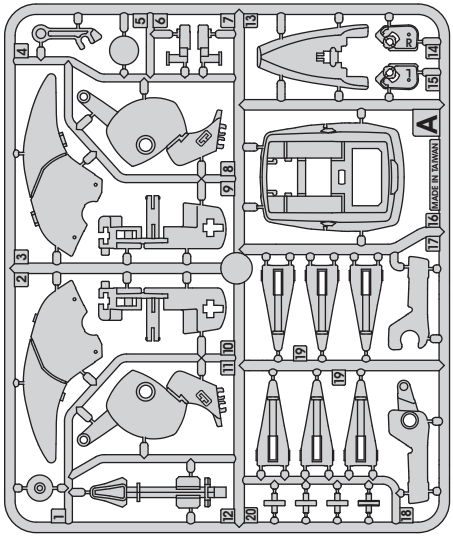


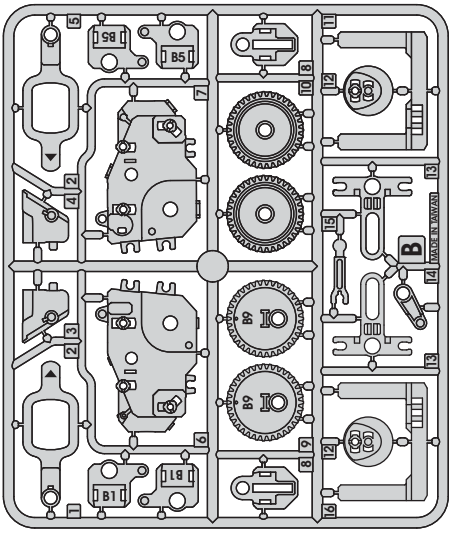
P8 2 pcs
Sponge

Don't connect the wires to the mains.
Product contains functional edges and sharp points.

Plastic Parts

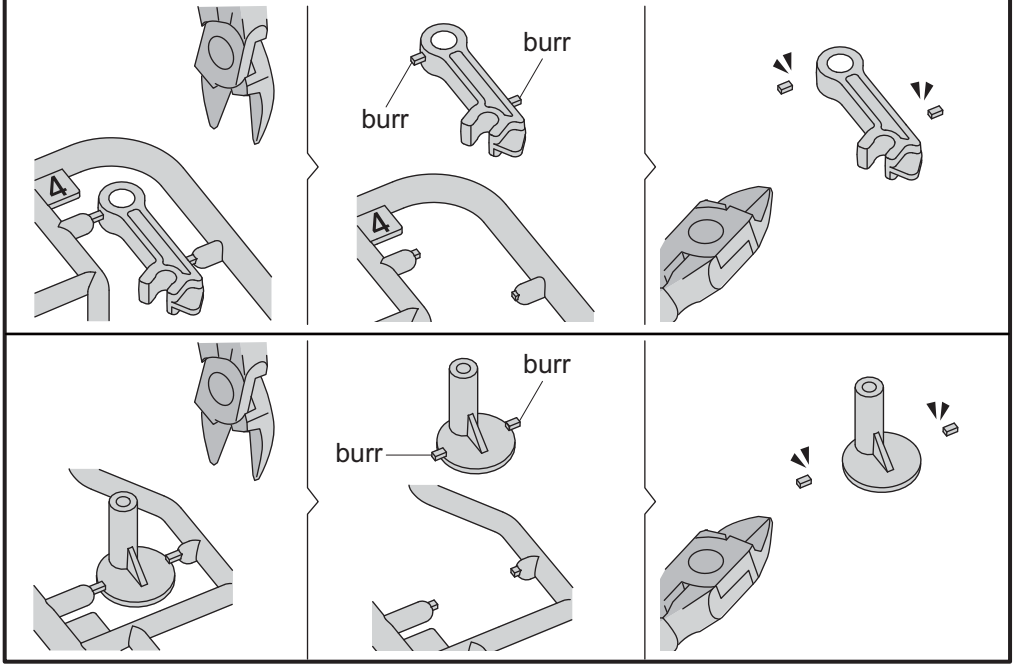
! Cut the plastic parts when they are required. Do not cut them in advance.



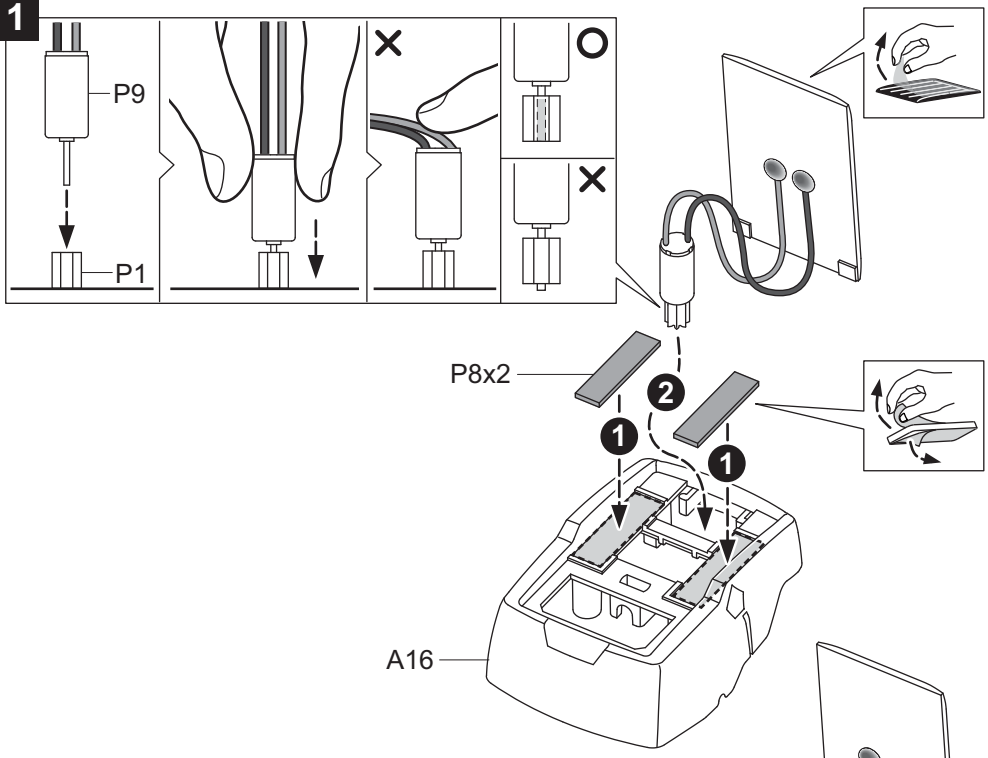


Hints

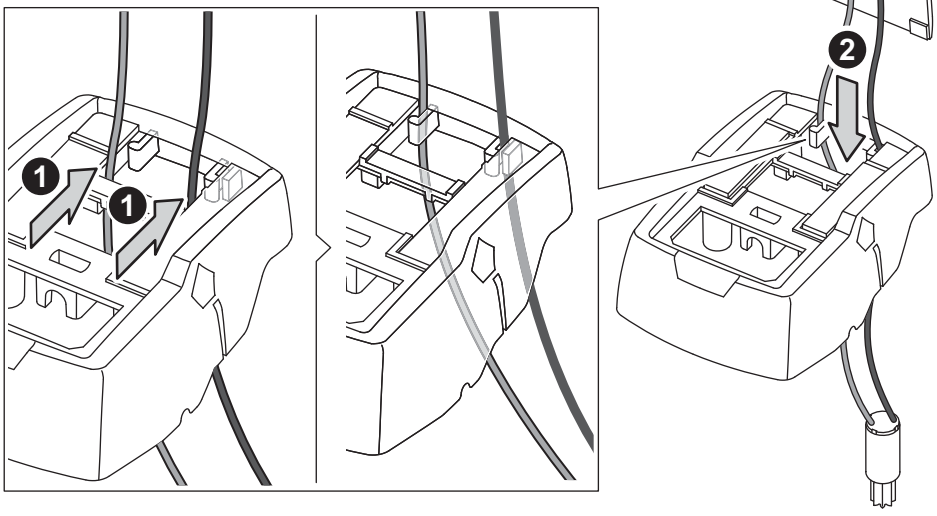
Cut off the burrs before assembly.



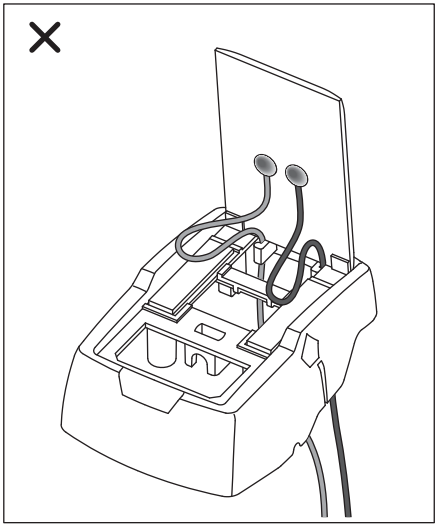
1

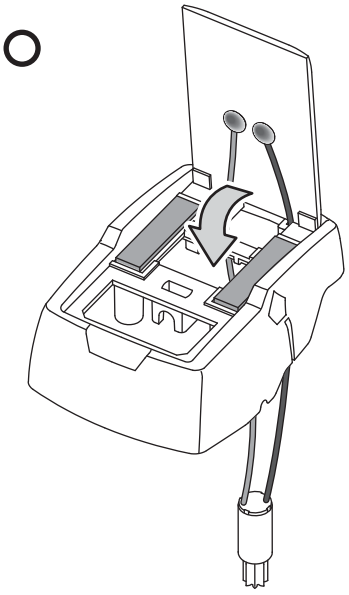


2

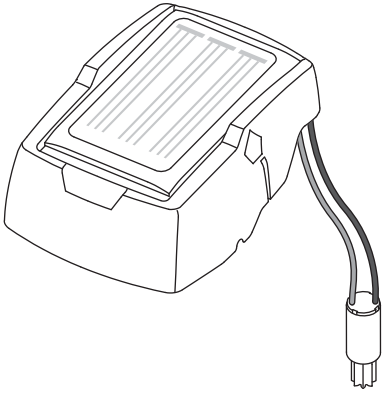


3





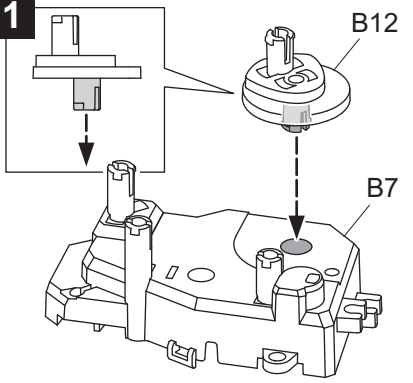
4 Completed

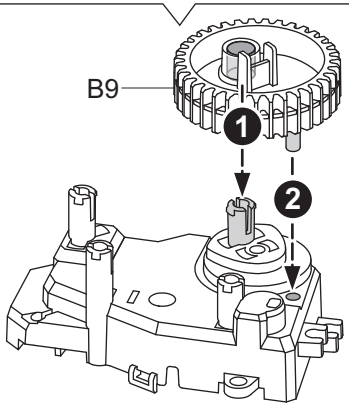


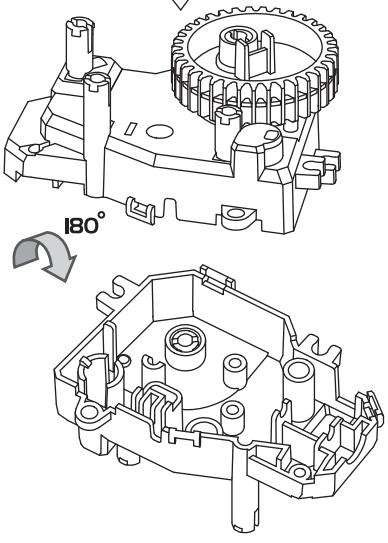
Gear Box

Assembly

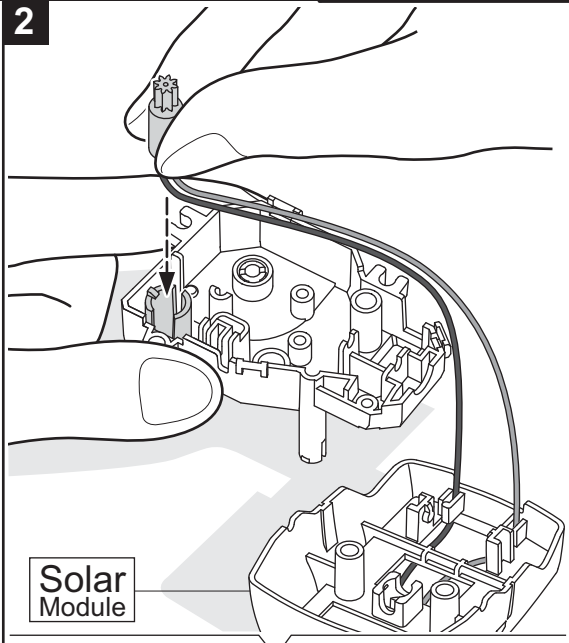
1

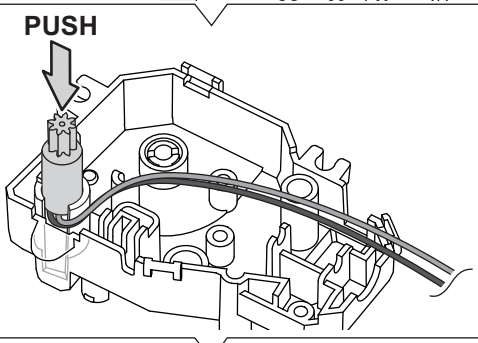


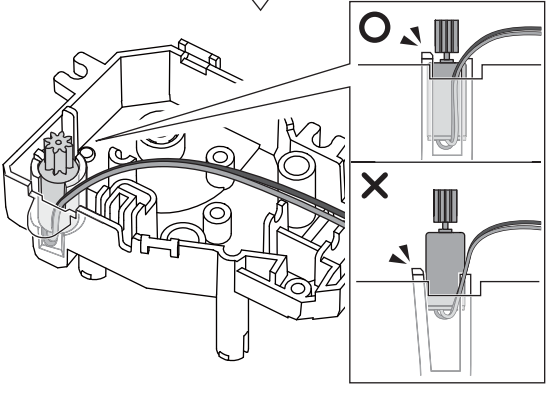




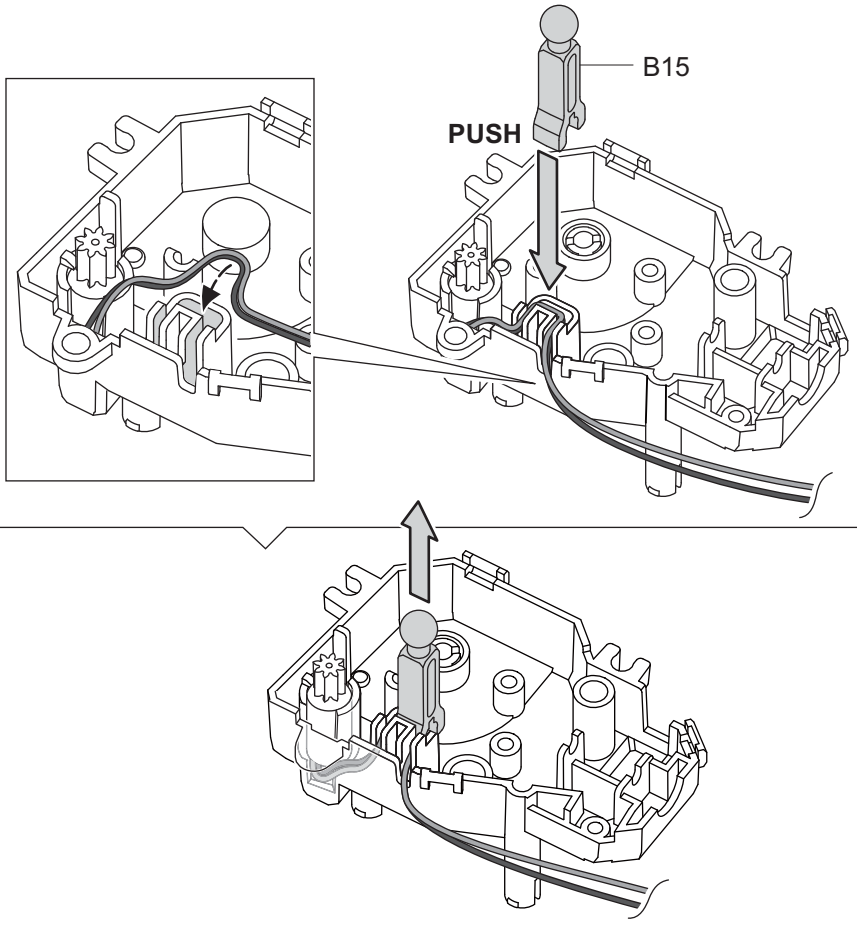
2

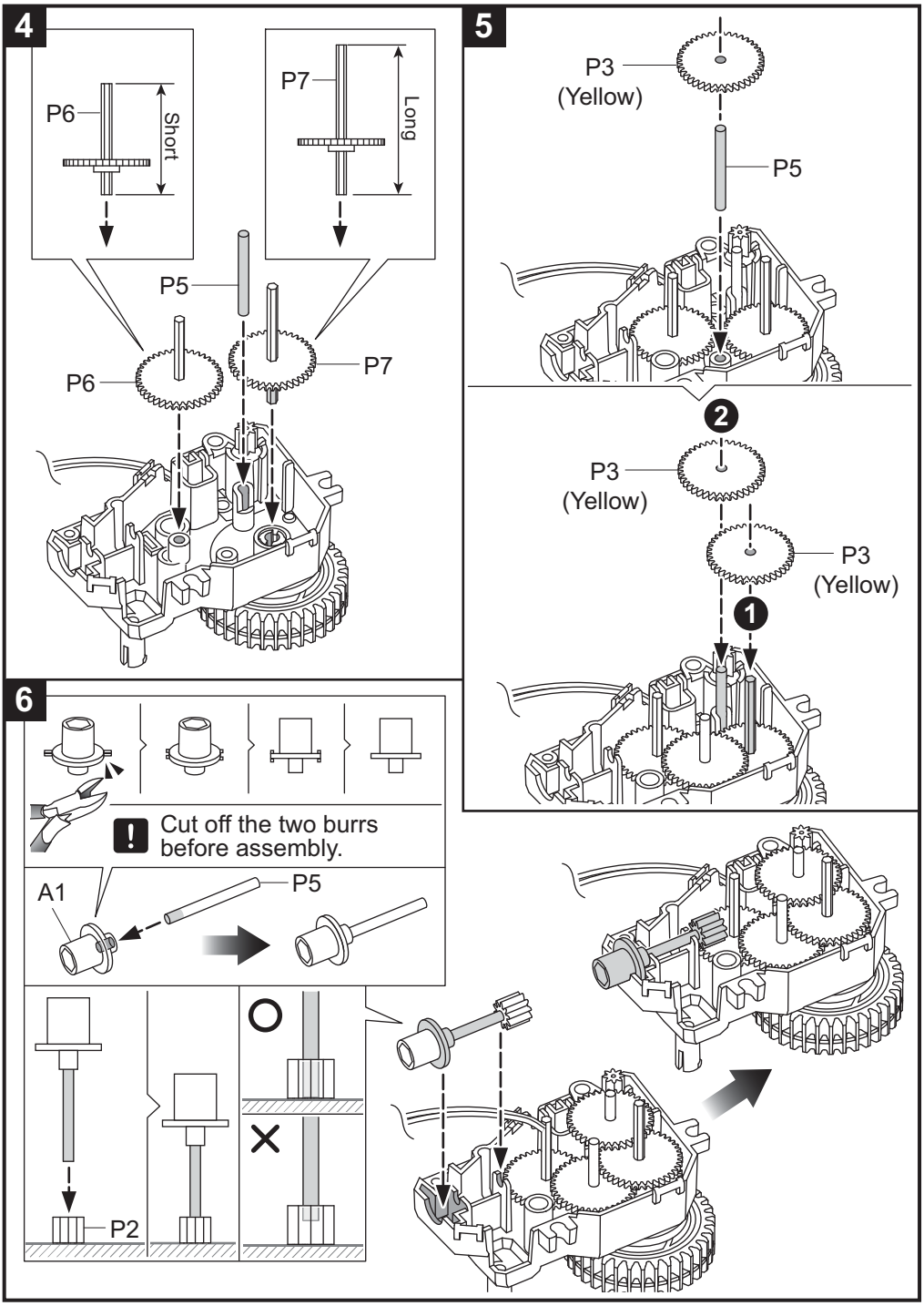




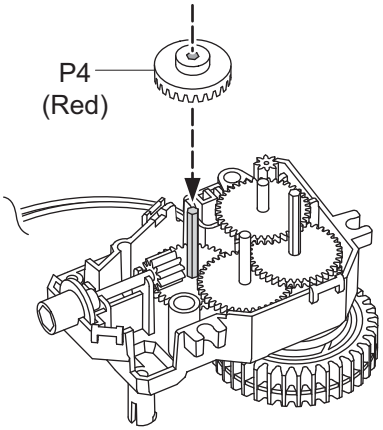


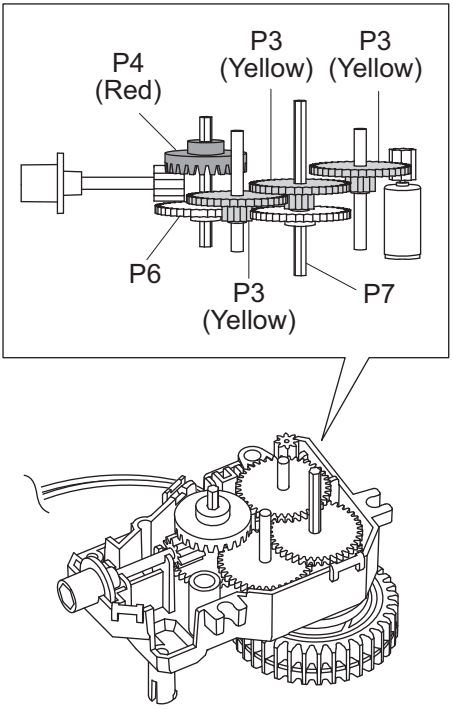
3 Use B15 to assist you in routing the wires as shown below.



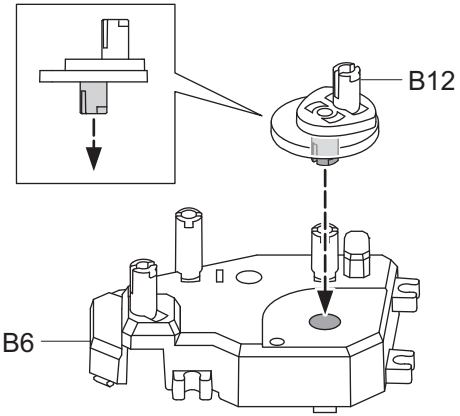

4
P6
Short
P7
Long
P5
P6
P7
5
P3
(Yellow)
P5
2
P3
(Yellow)
P3
(Yellow)
1
6
Cut off the two burrs
before assembly.
A1
P5
P2

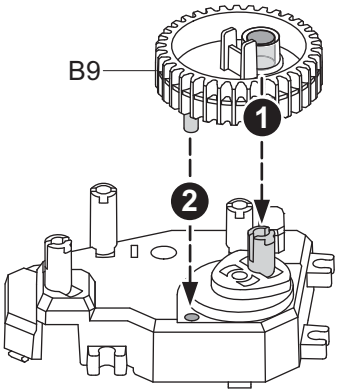
7

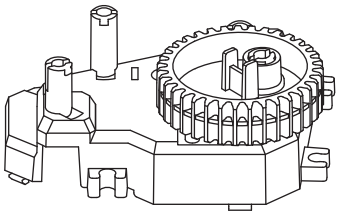




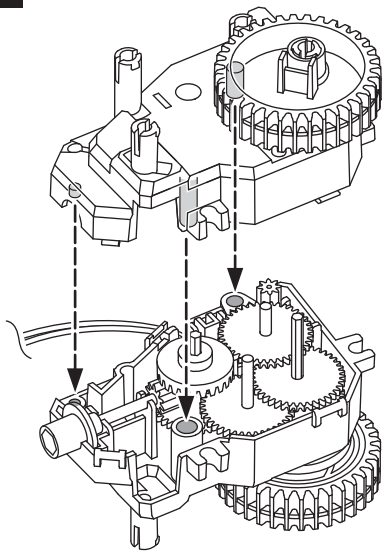
8



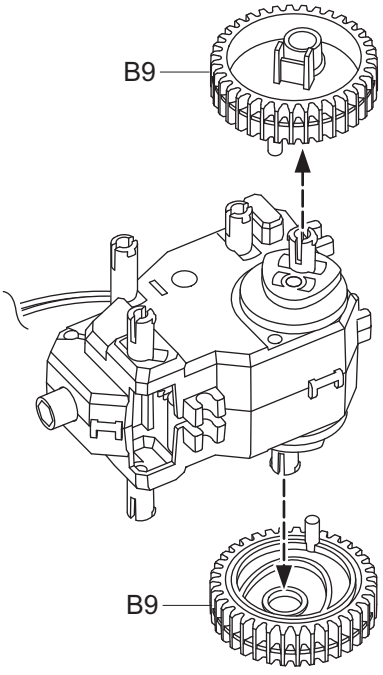




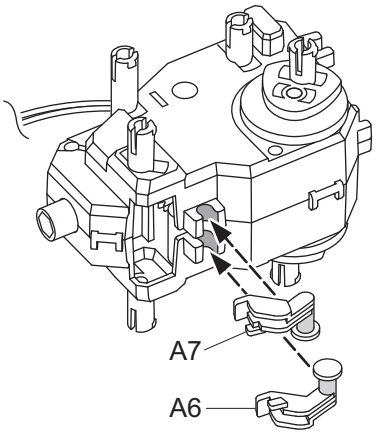
9

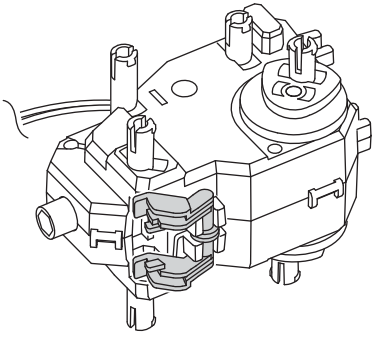


10 Disassemble B9

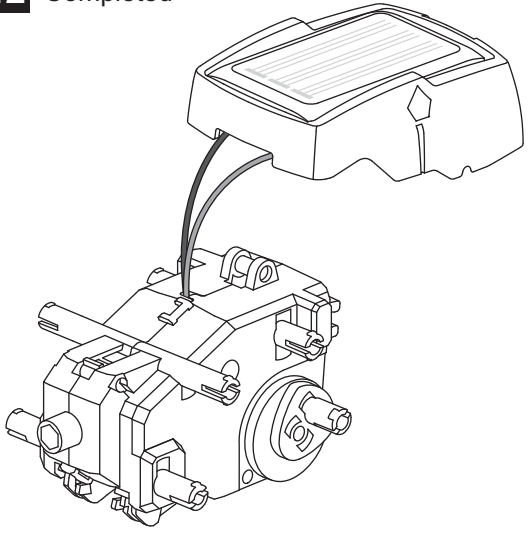


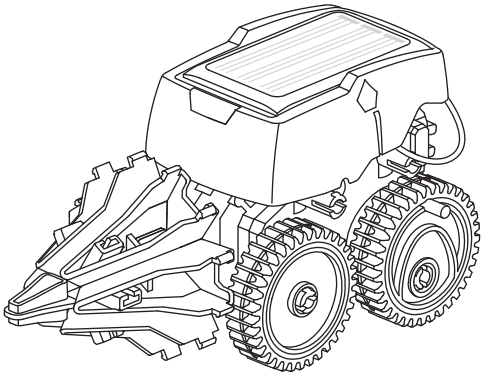
11



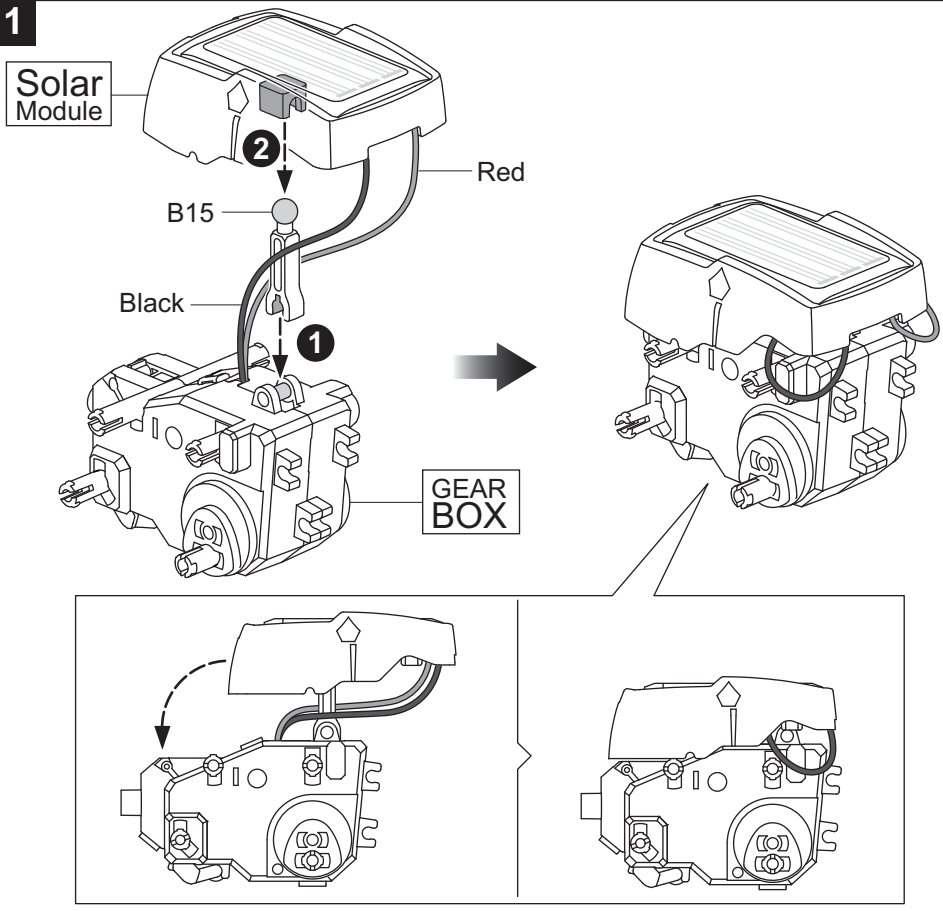


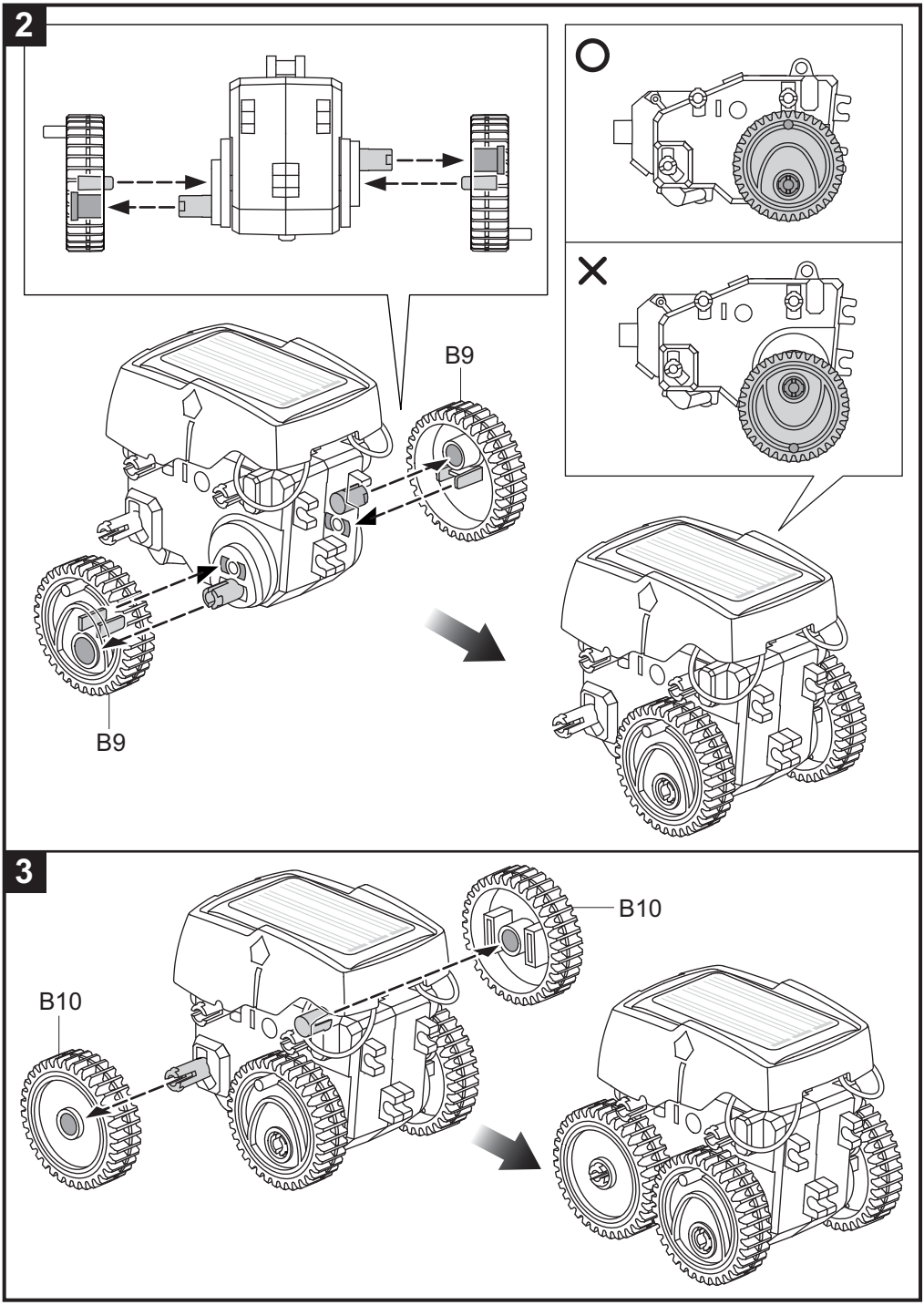
12 Completed



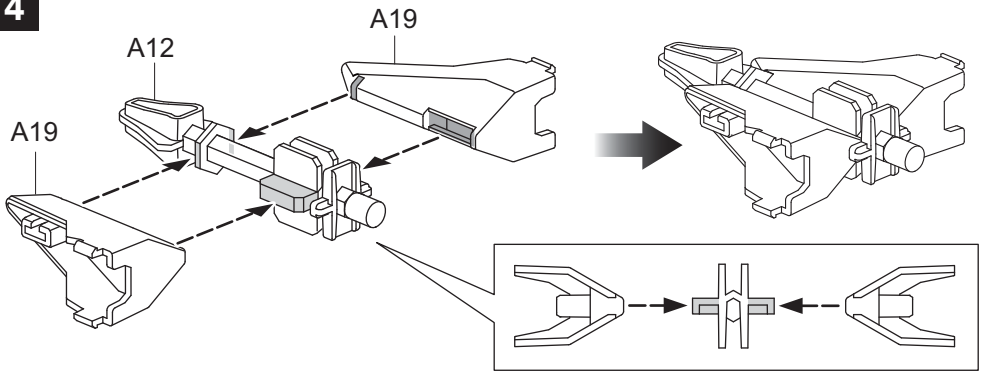


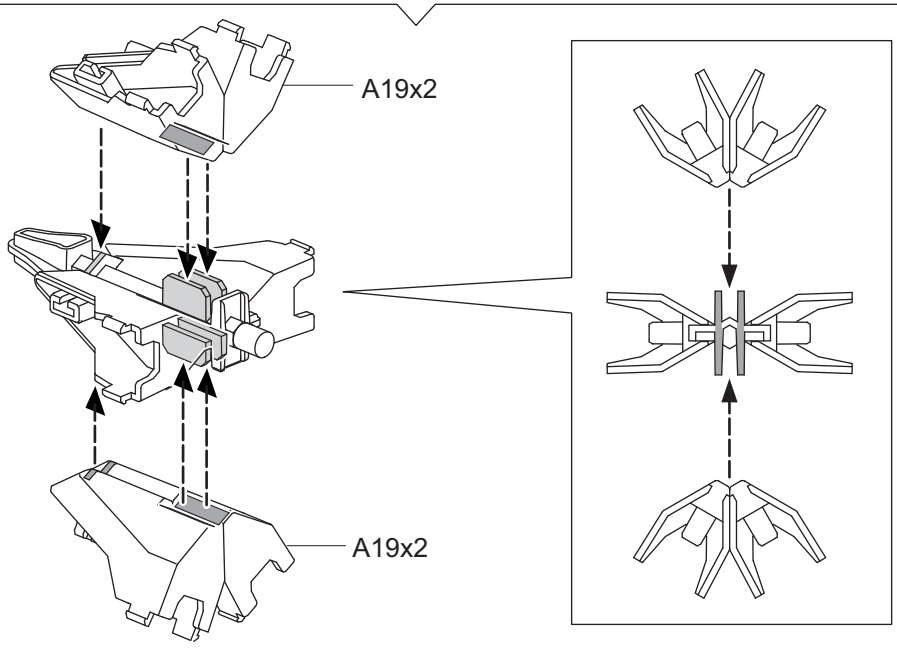
1

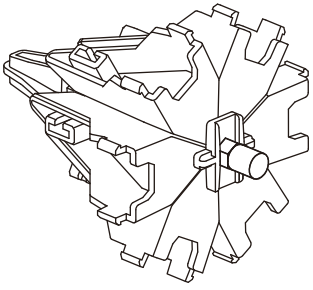



2
B9
B9
3
B10
B10

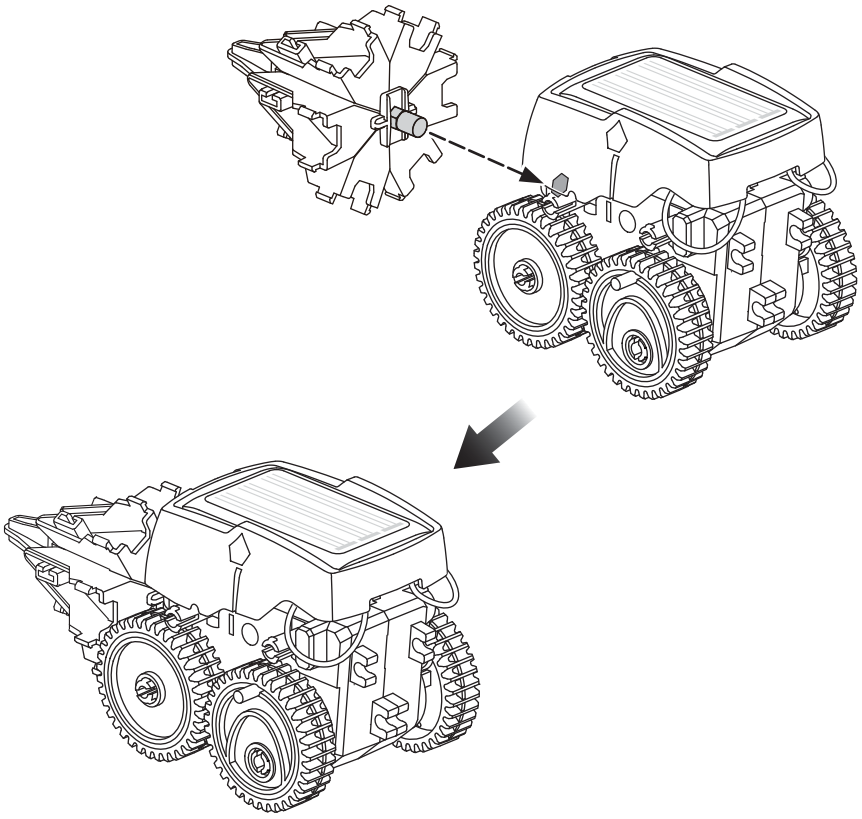
4



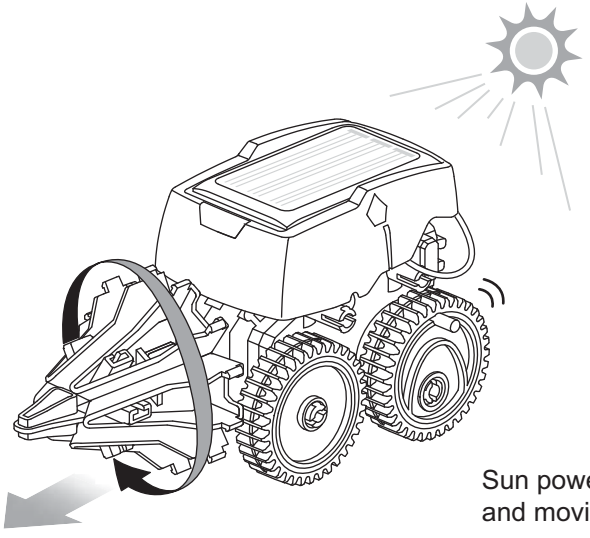




5

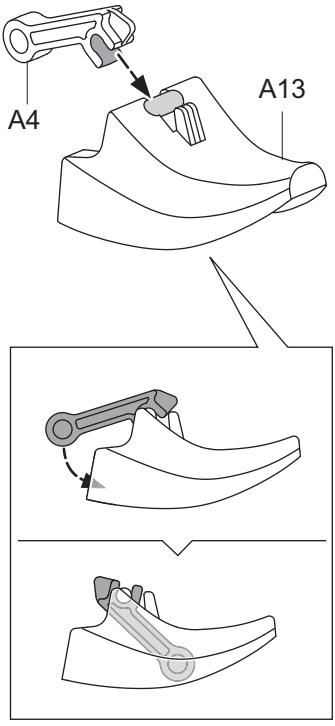


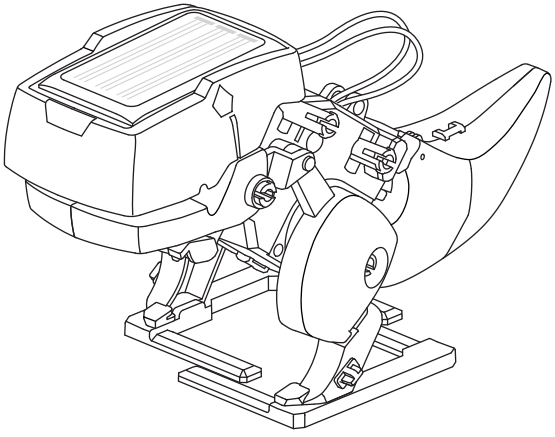
6 Running



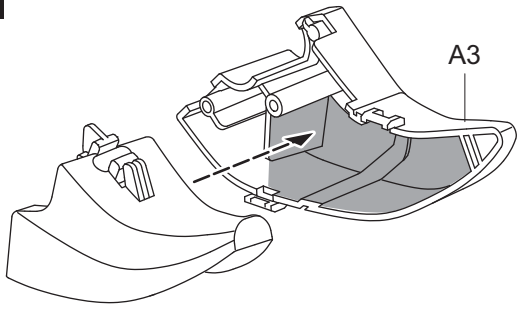
Sun powers drilling bit
and moving wheels

1

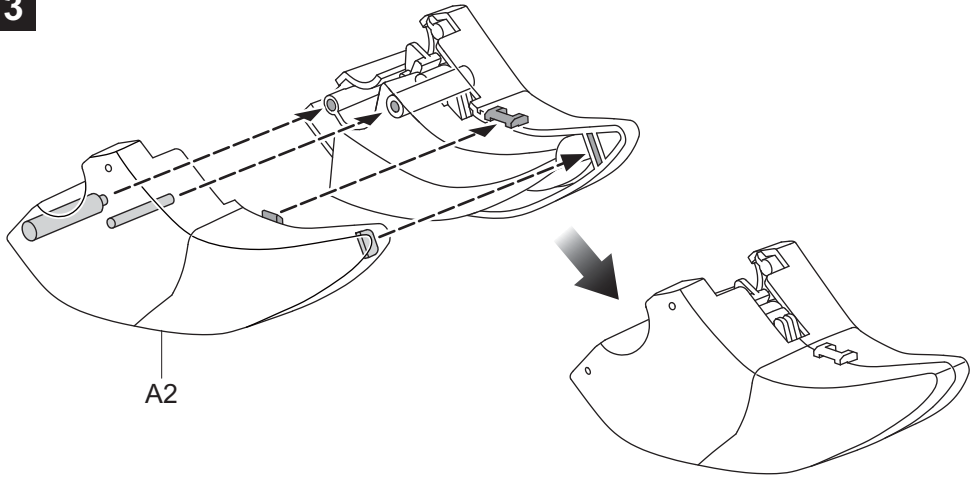




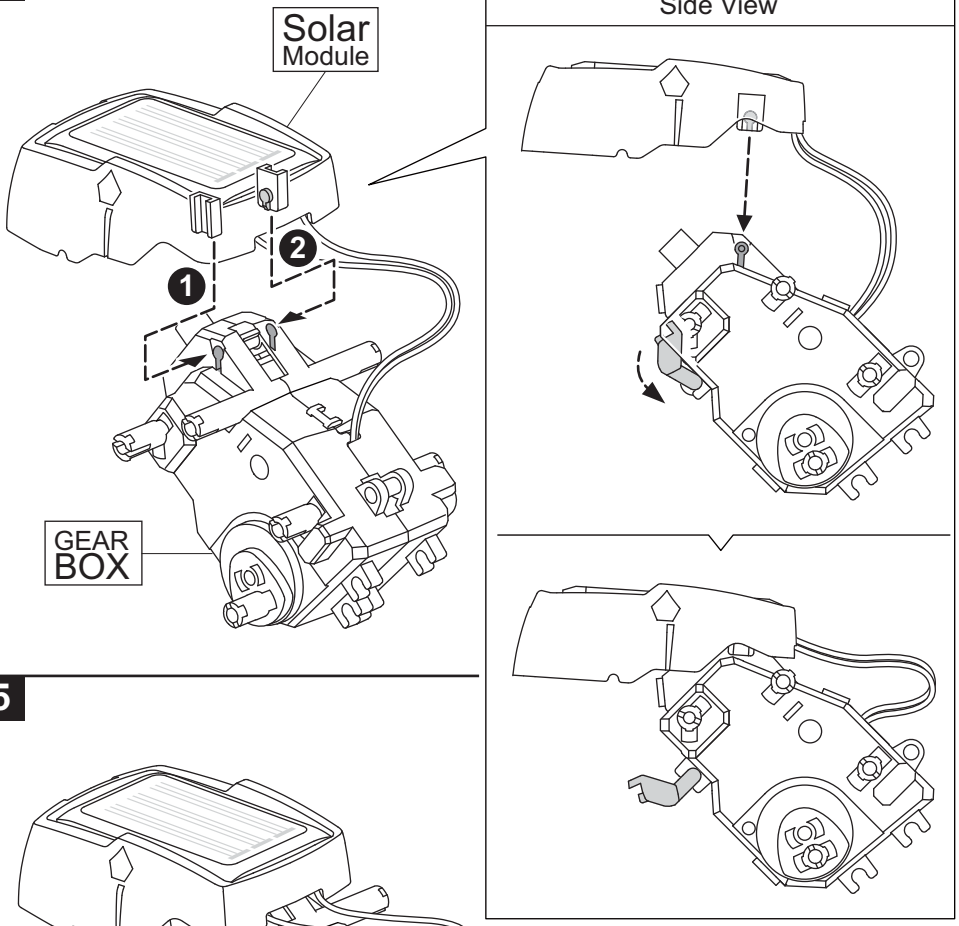
2



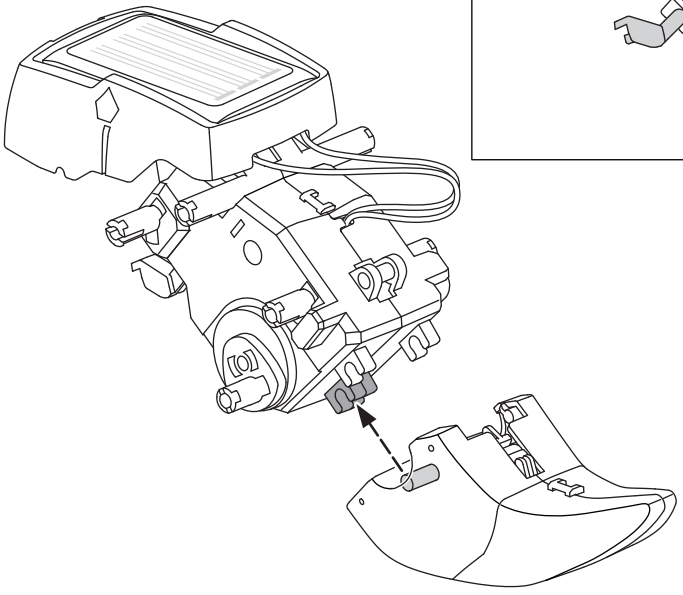
3



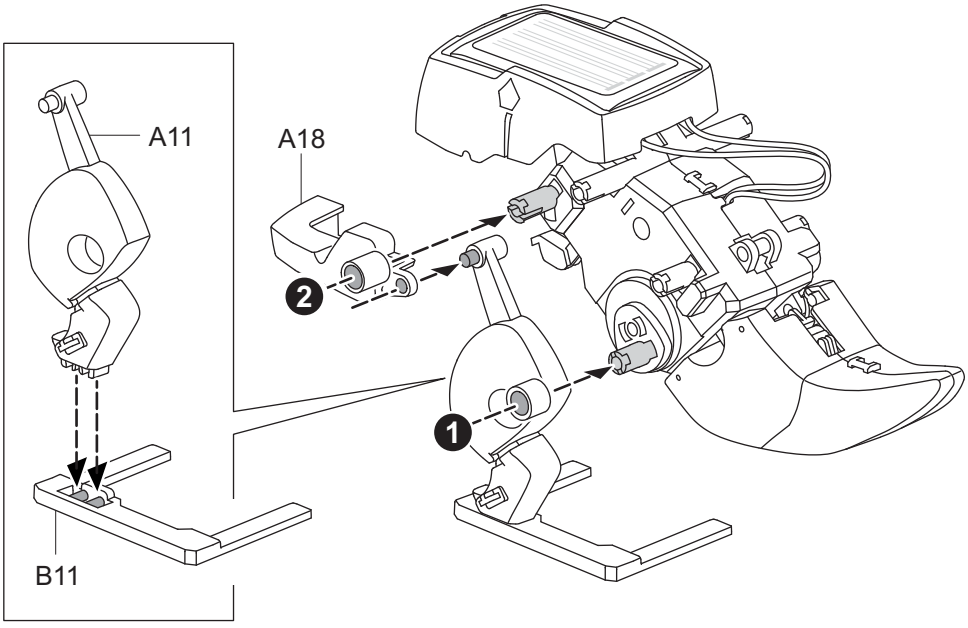
4



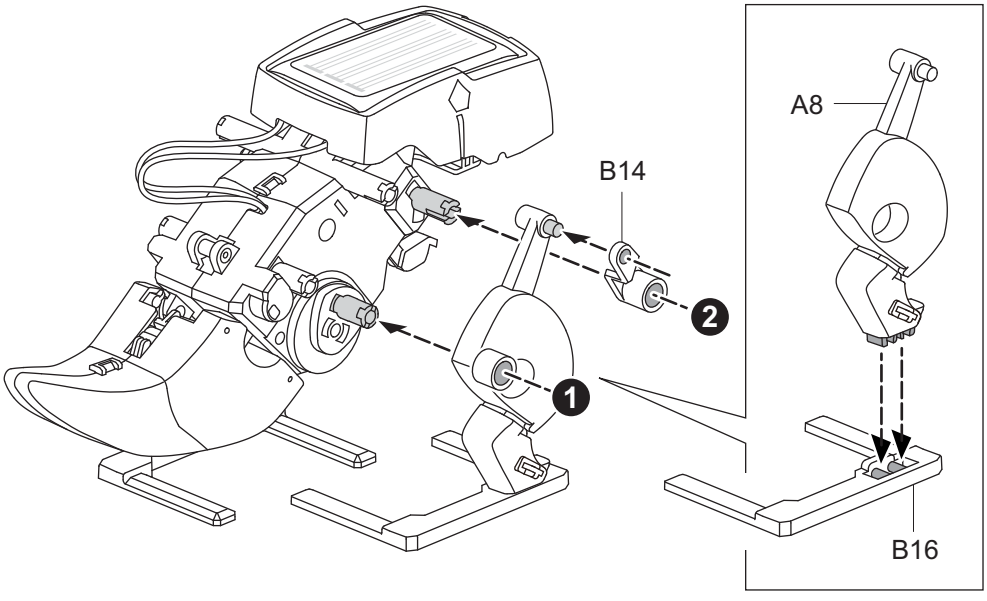
5



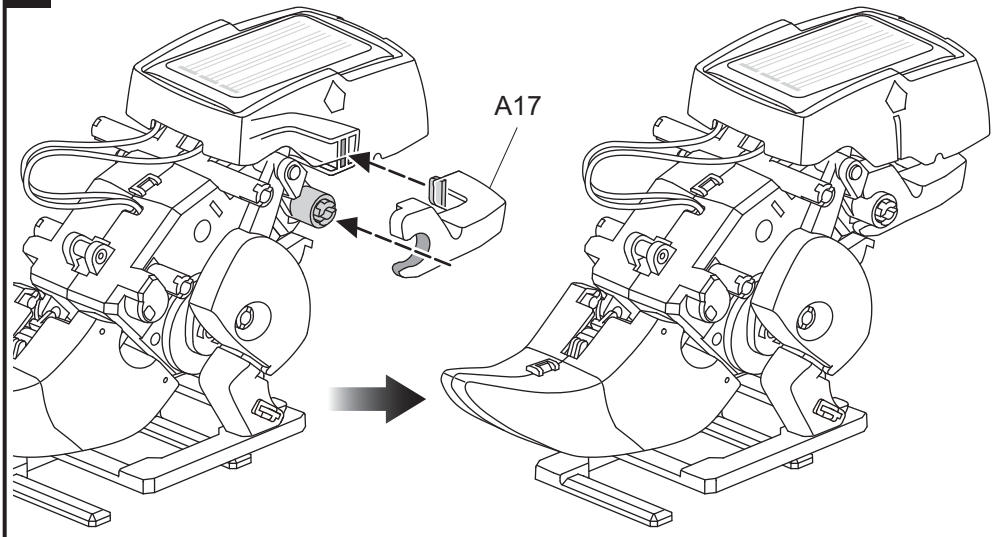
6



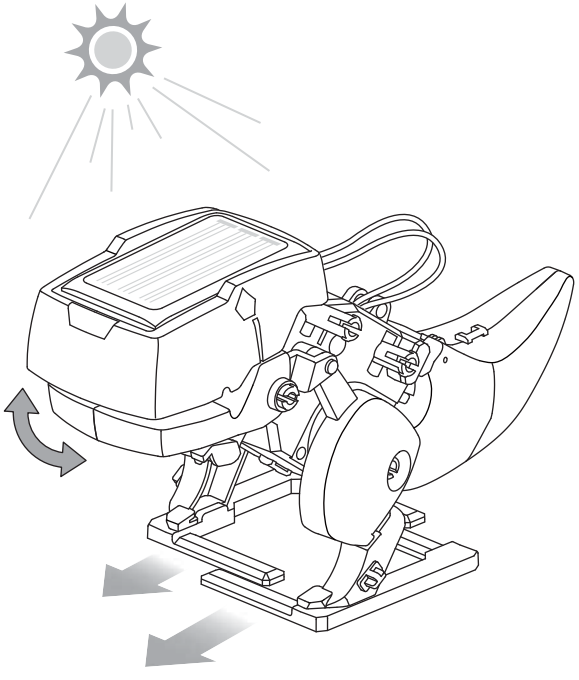
7



8

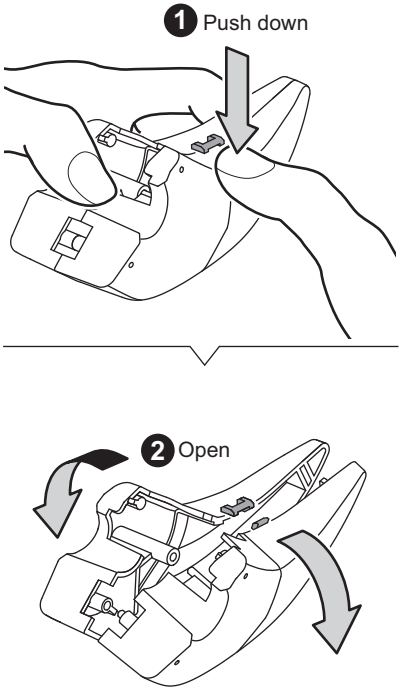


9 Running



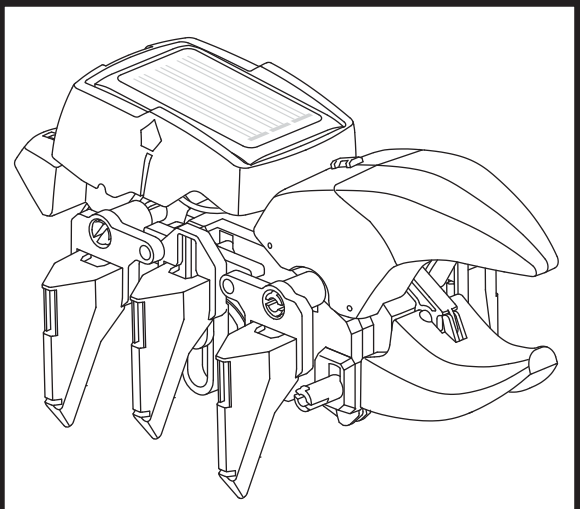
Sun powers walking
and jaw action

Disassemble

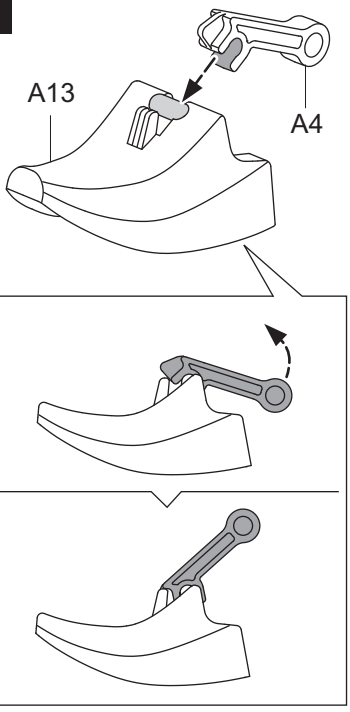


Rhino Beetle

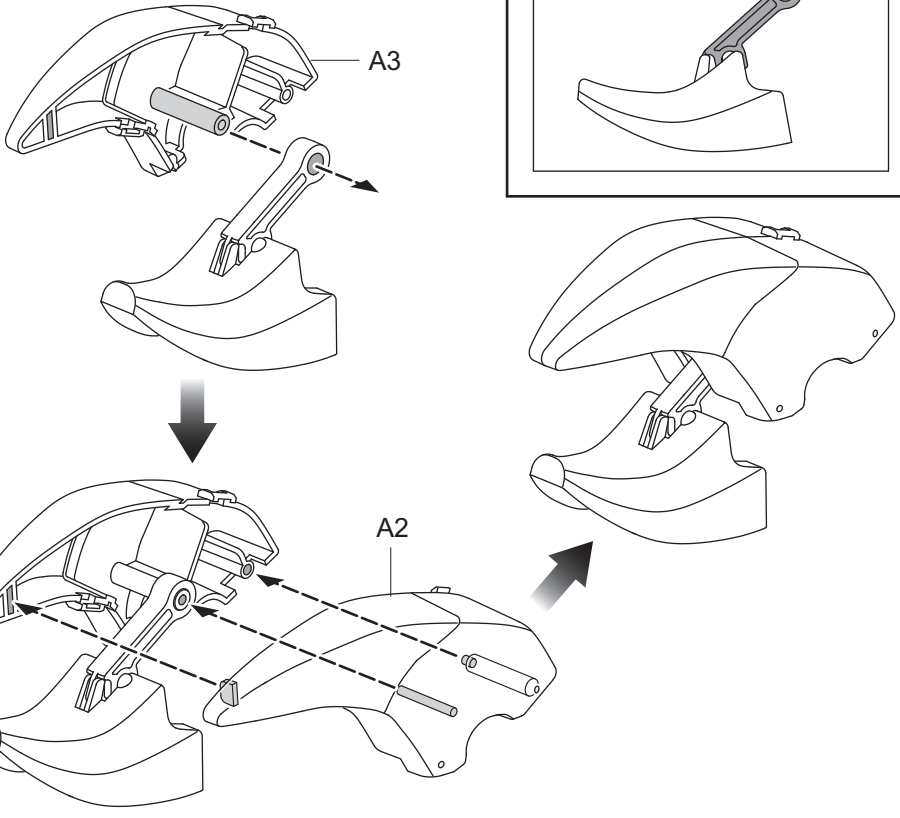
Assembly & Play

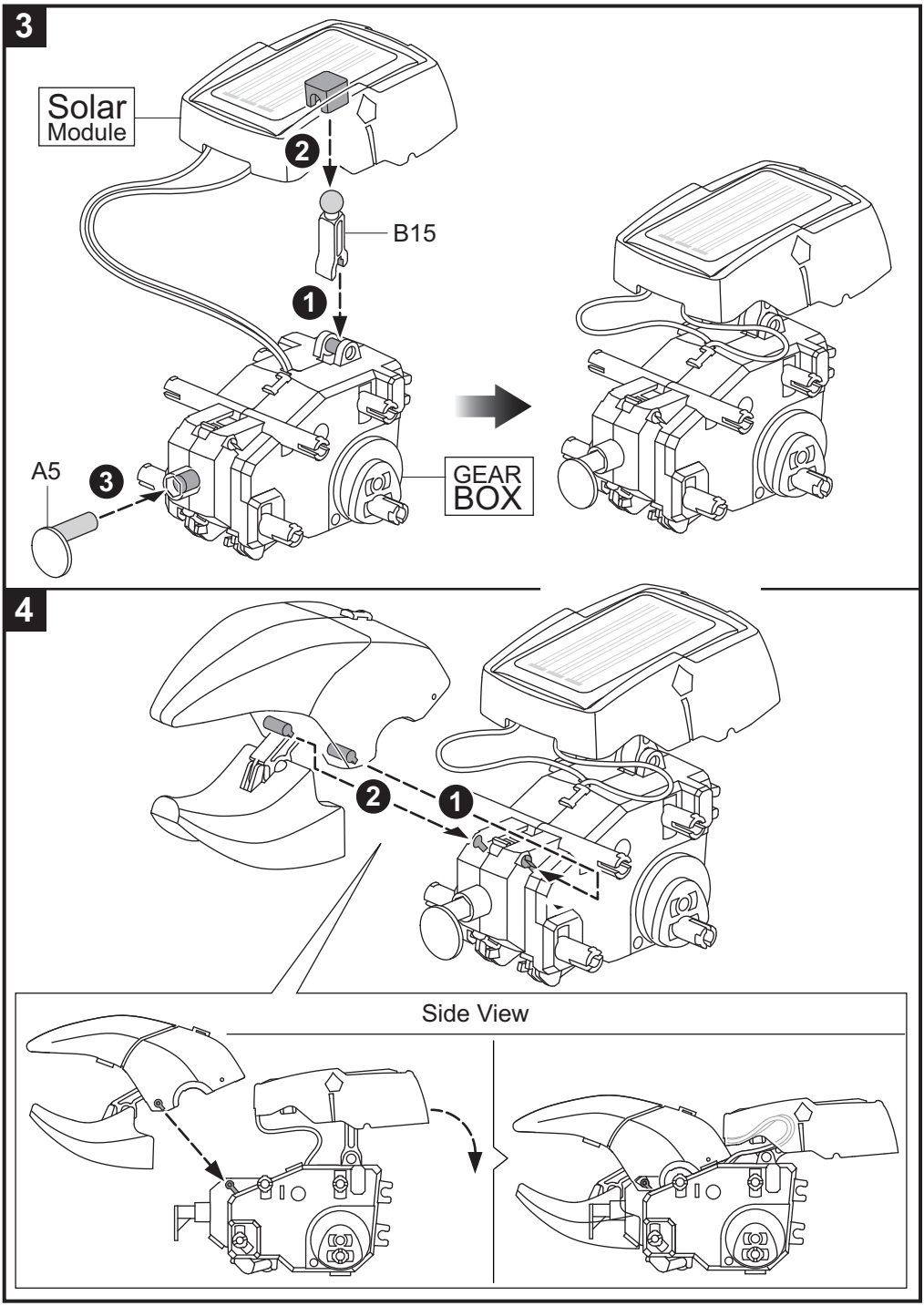


1

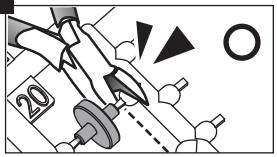


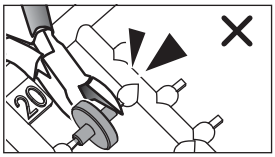
2



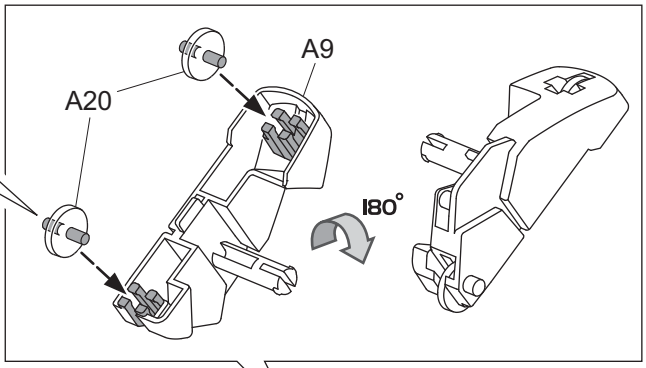

3
Solar
Module
2
B15
1
A5
3
GEAR
BOX
4
2
1
Side View

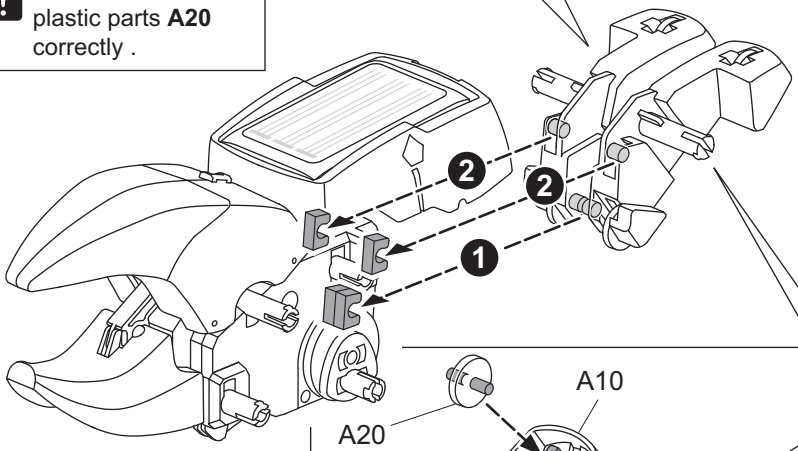
5

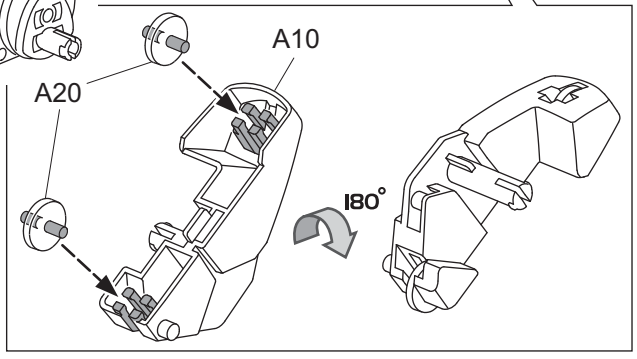




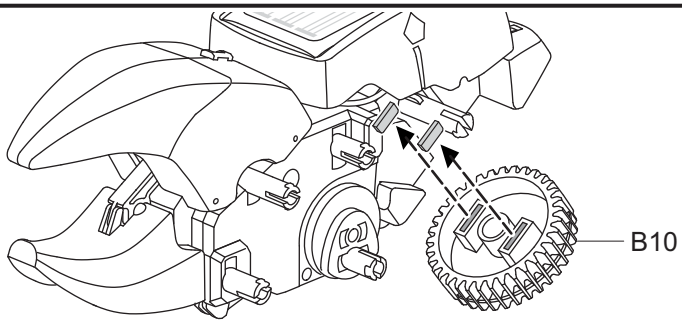
! Make sure to cut the plastic parts **A20** correctly .



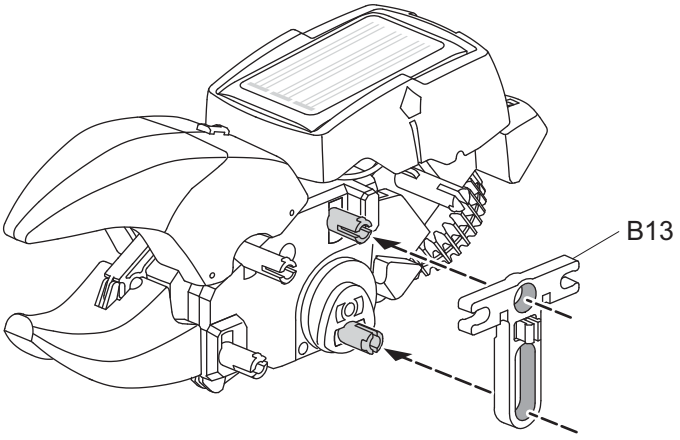




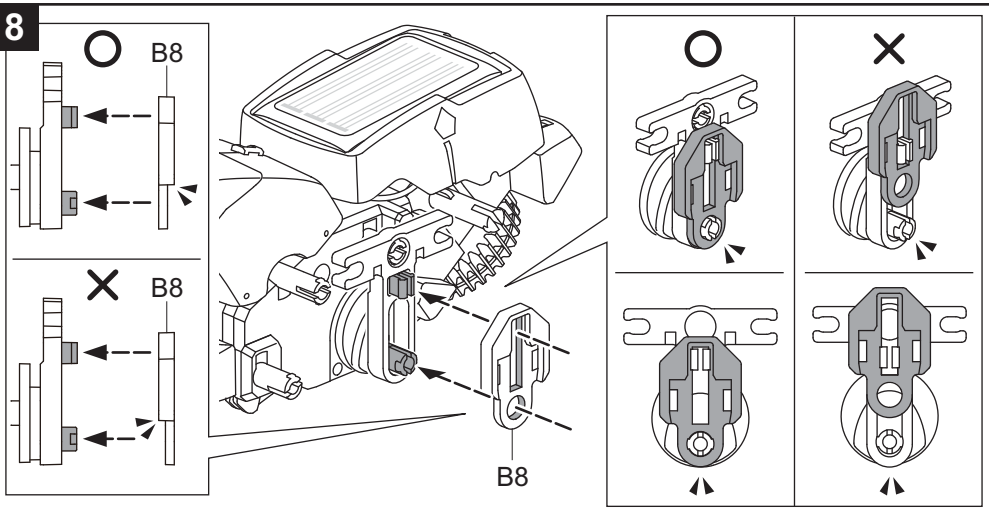
6



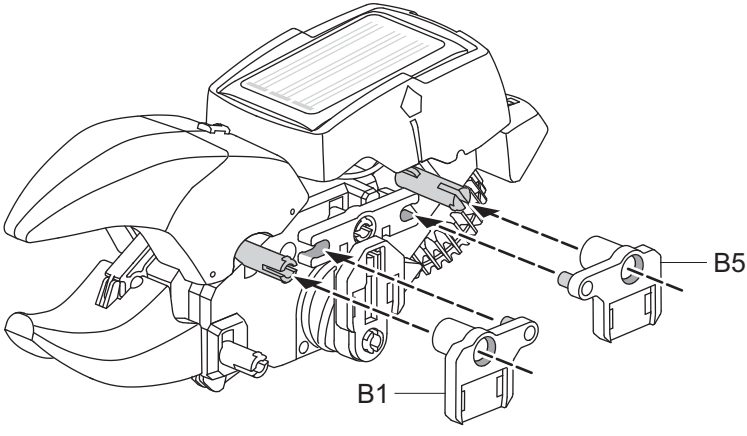
7



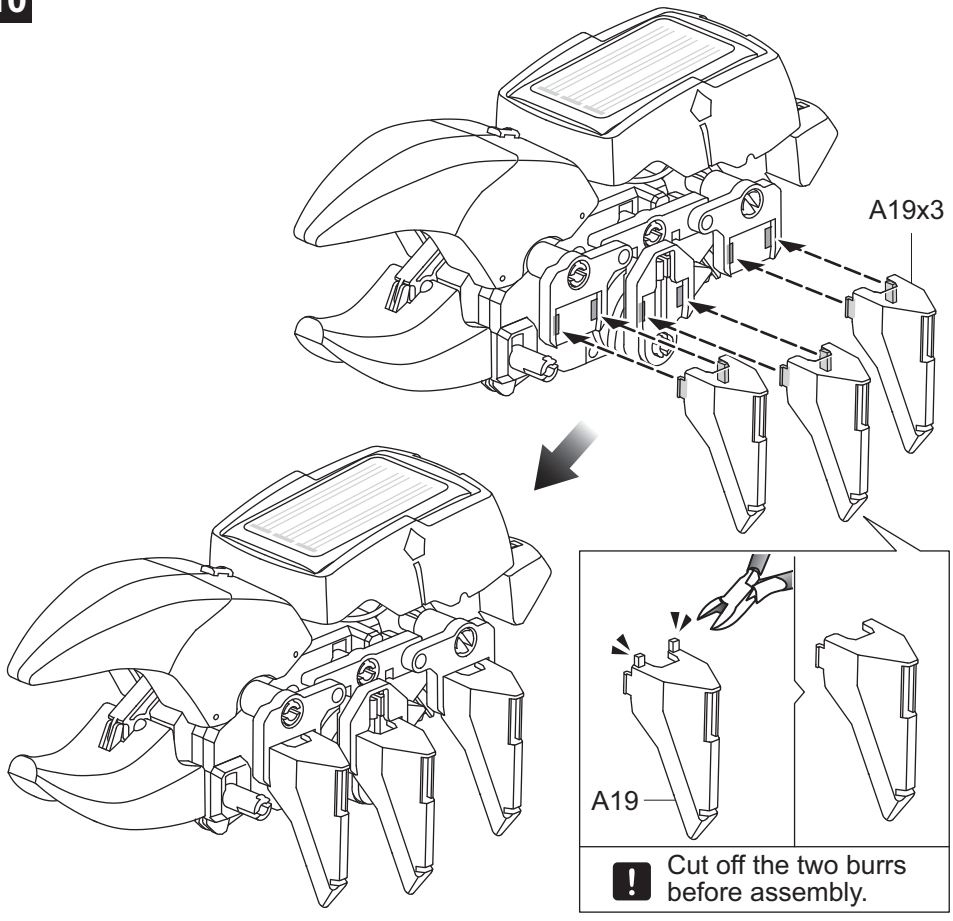
8



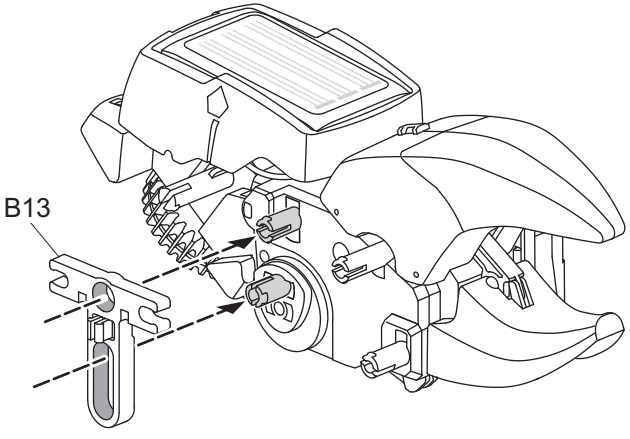
9



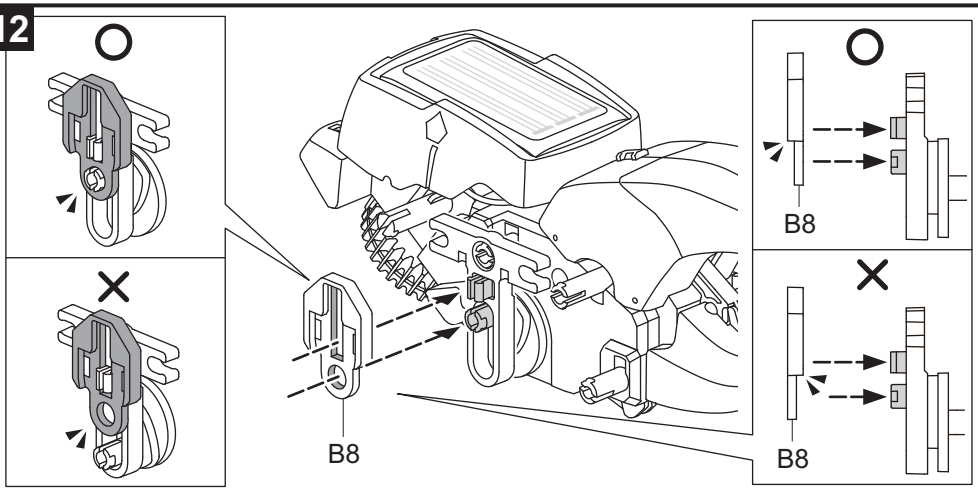
10



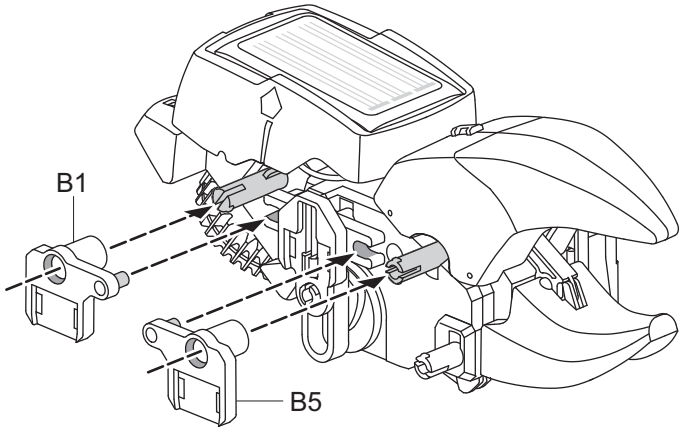
11



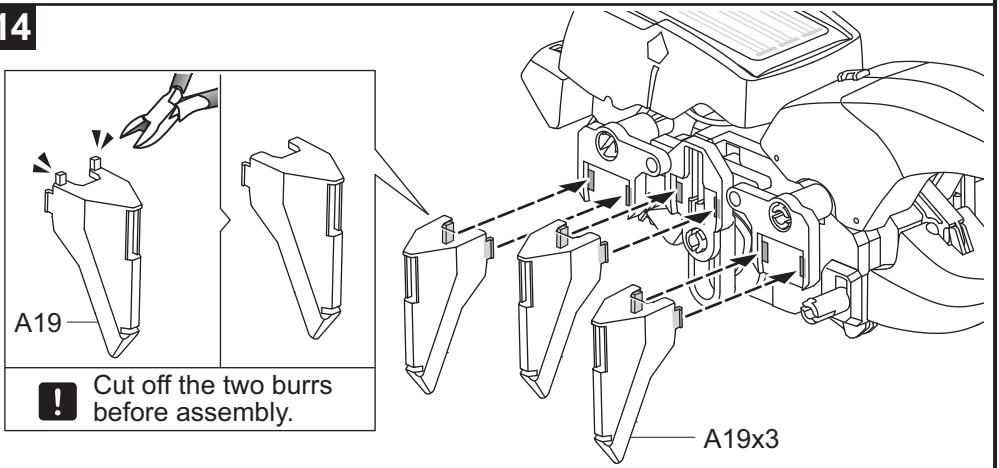
12



13

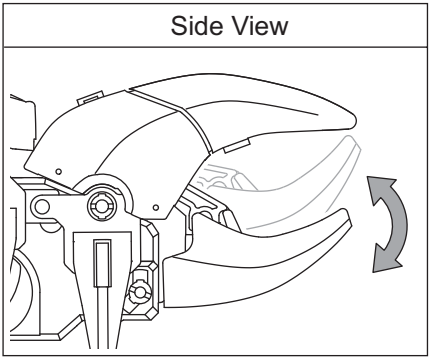


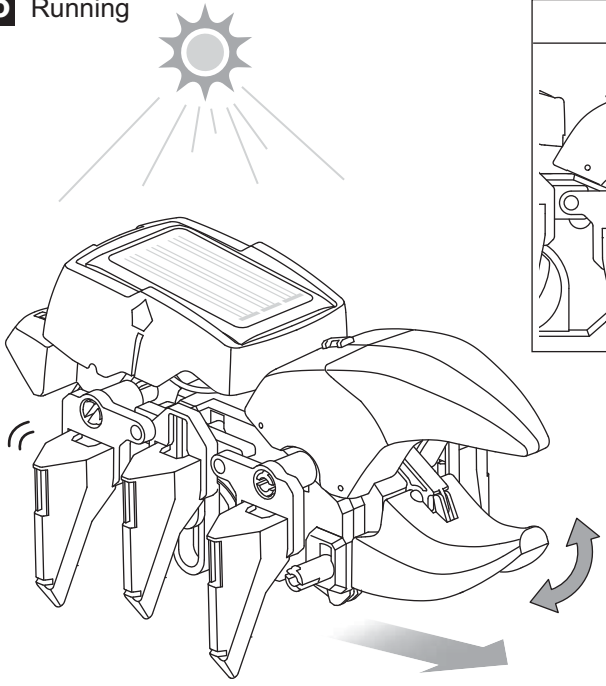
14



! Cut off the two burrs before assembly.

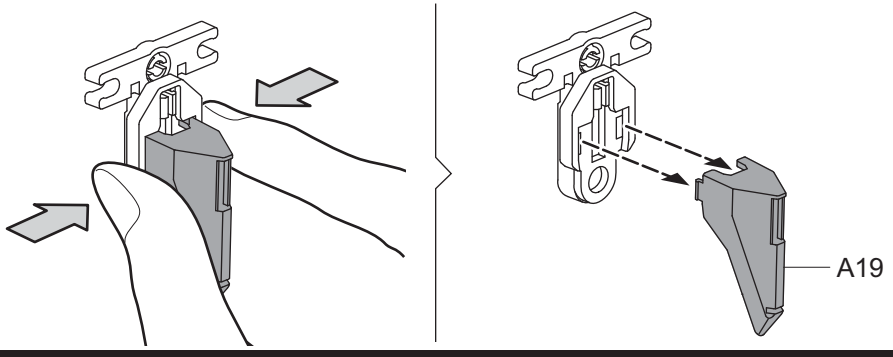
15 Running



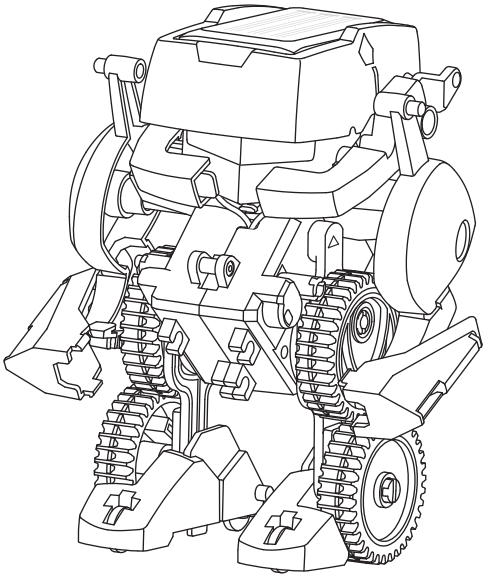


Sun powers 6-leg
walking and jaw action

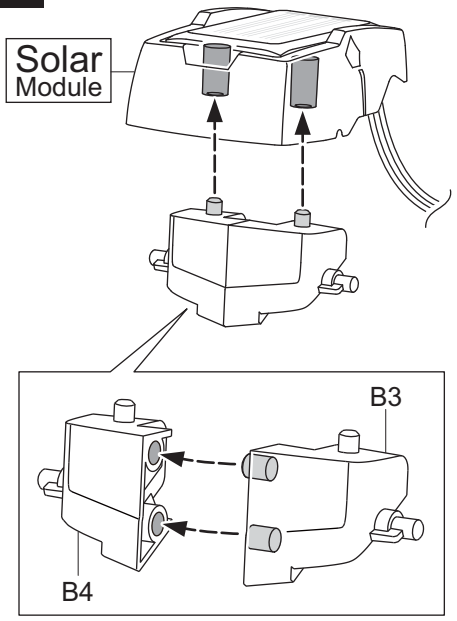
Disassemble



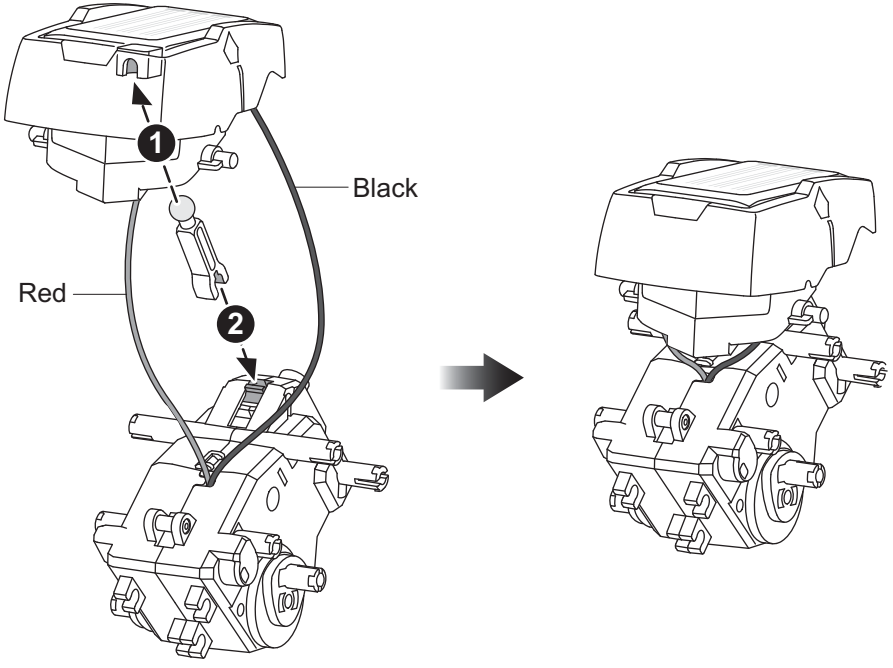
Don’t Disassemble



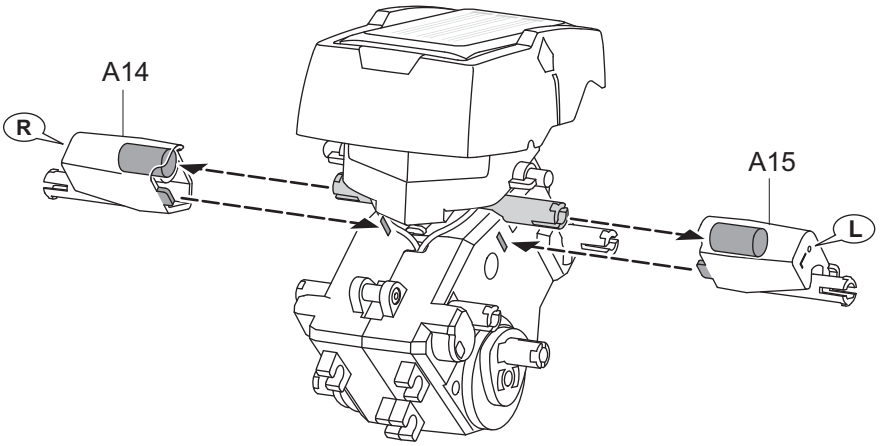
1

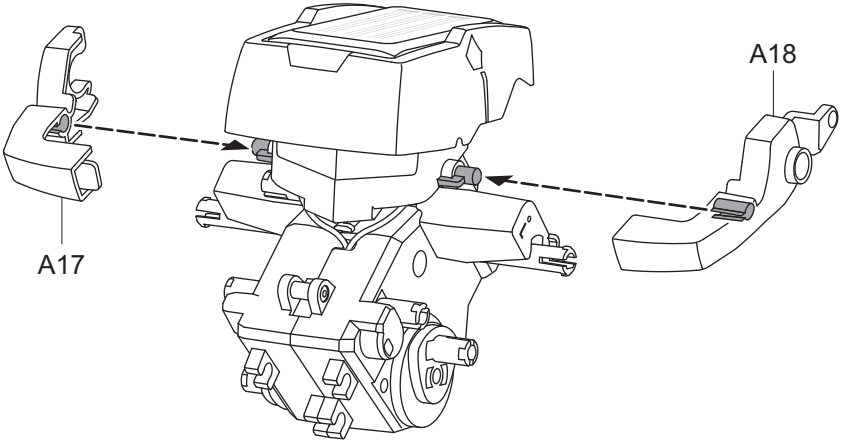


2

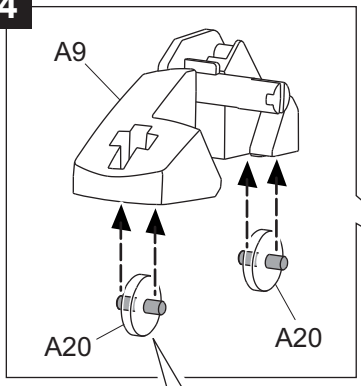


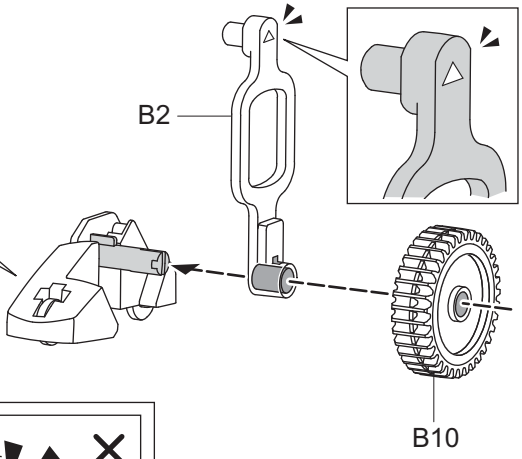
3

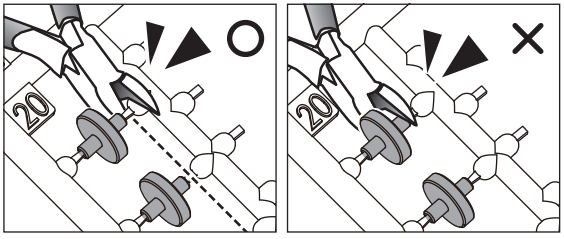




4

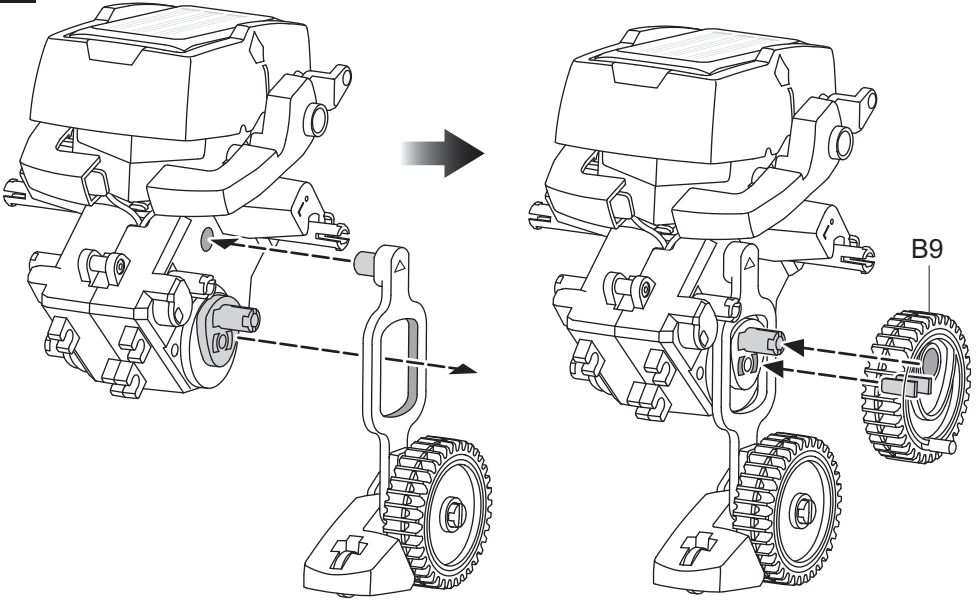




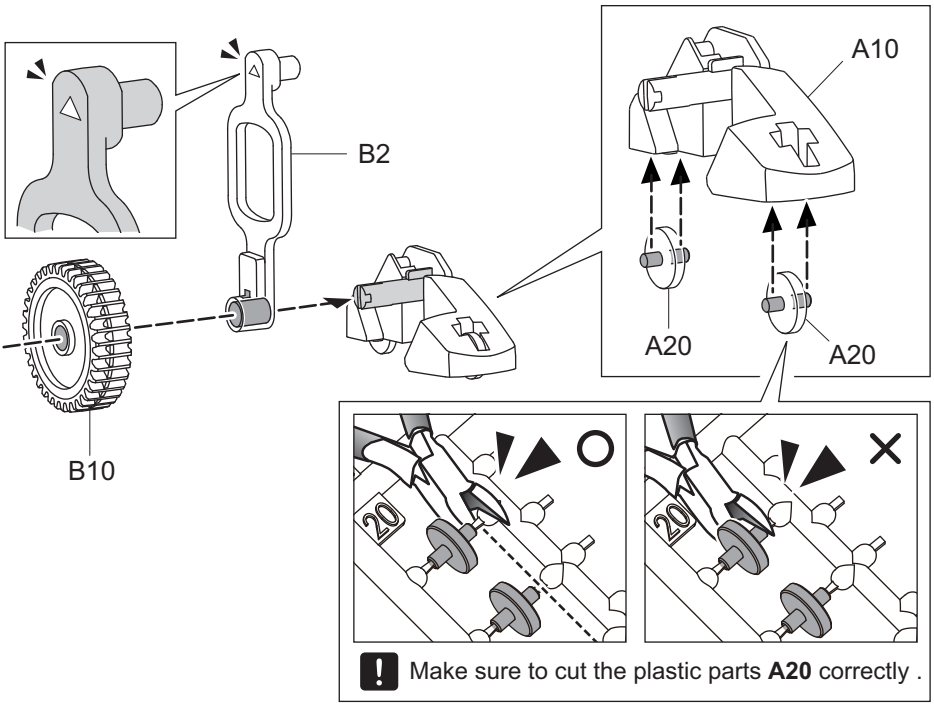


! Make sure to cut the plastic parts **A20** correctly.

5

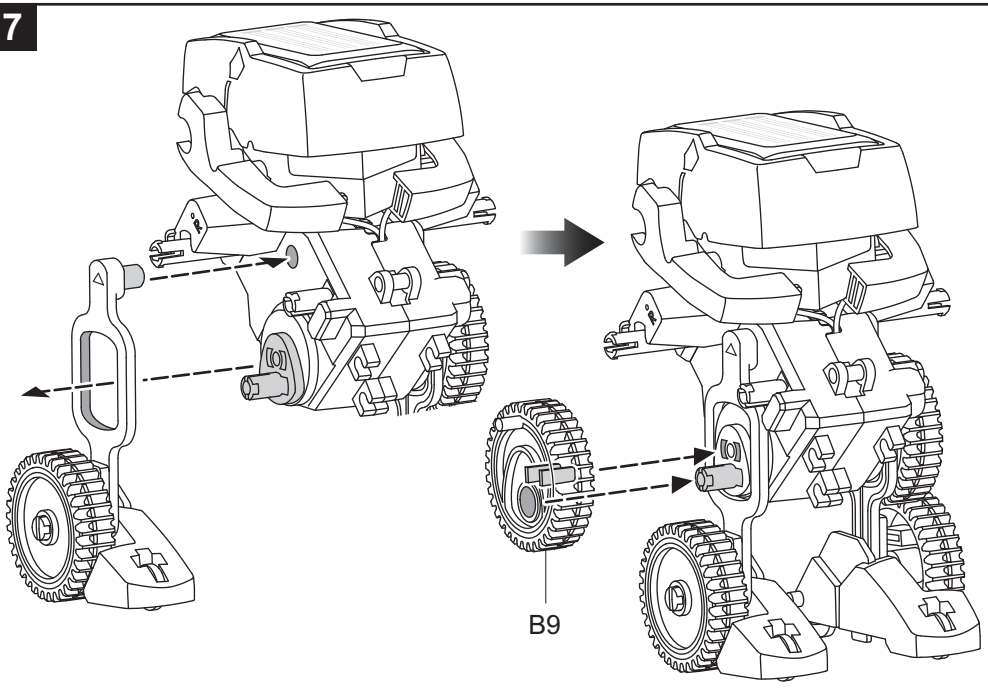


6

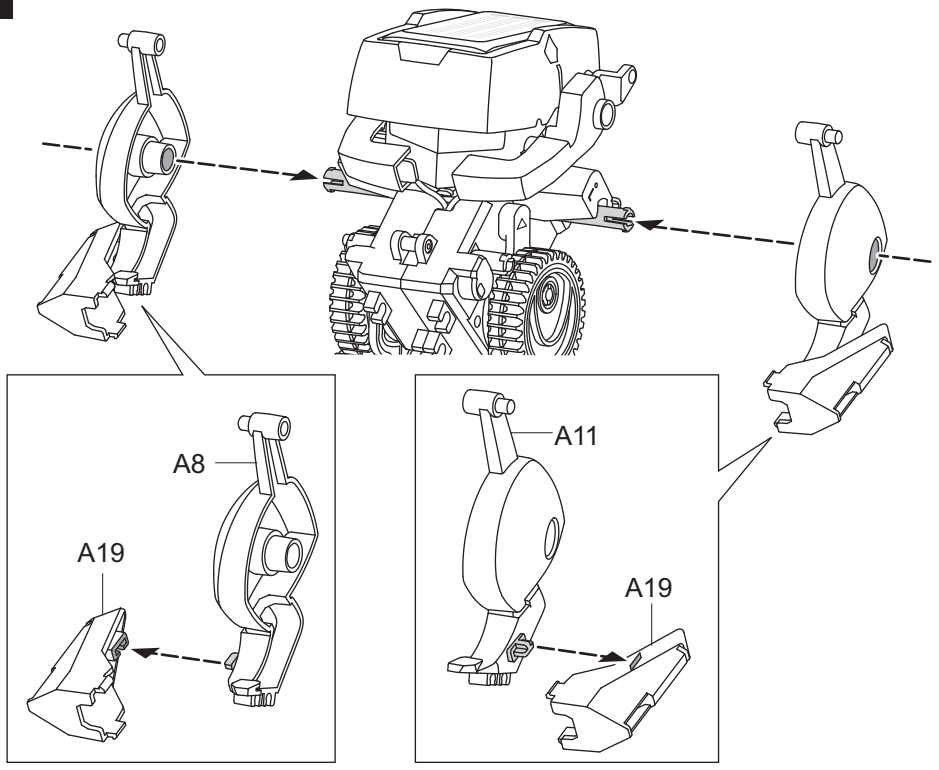


! Make sure to cut the plastic parts **A20** correctly .

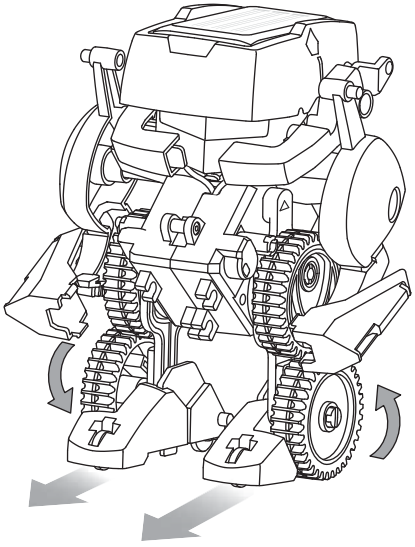
7



8



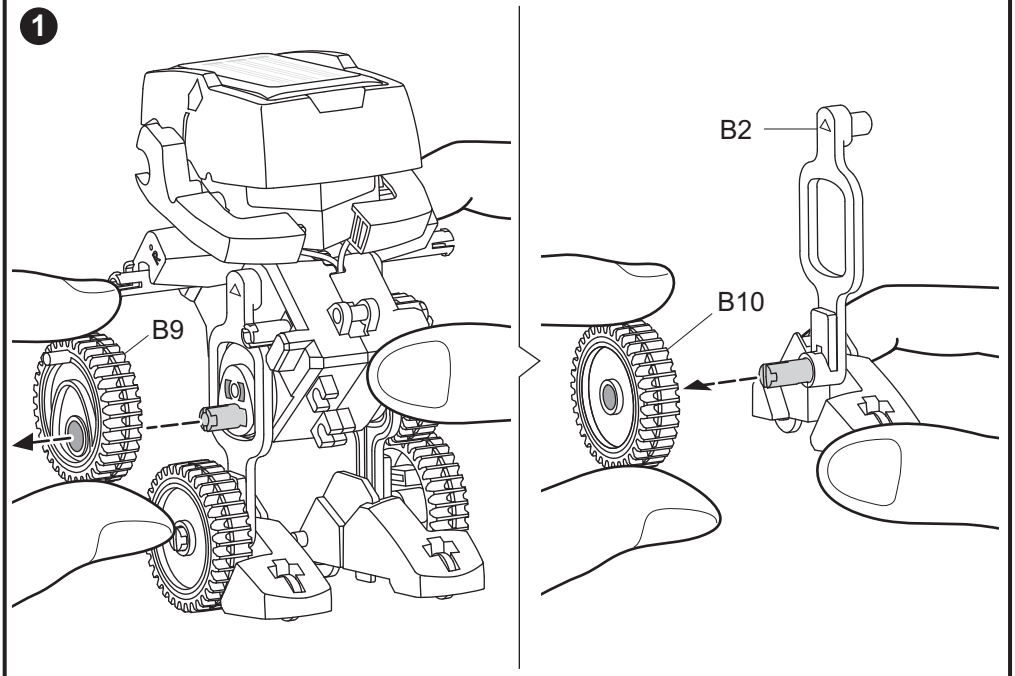
9 Running

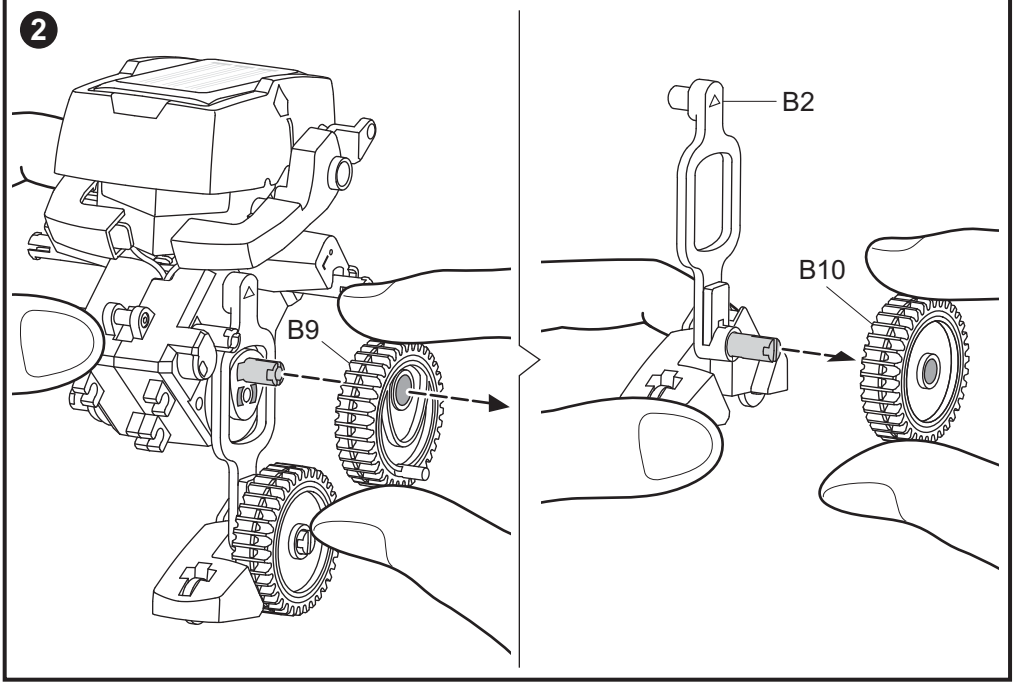


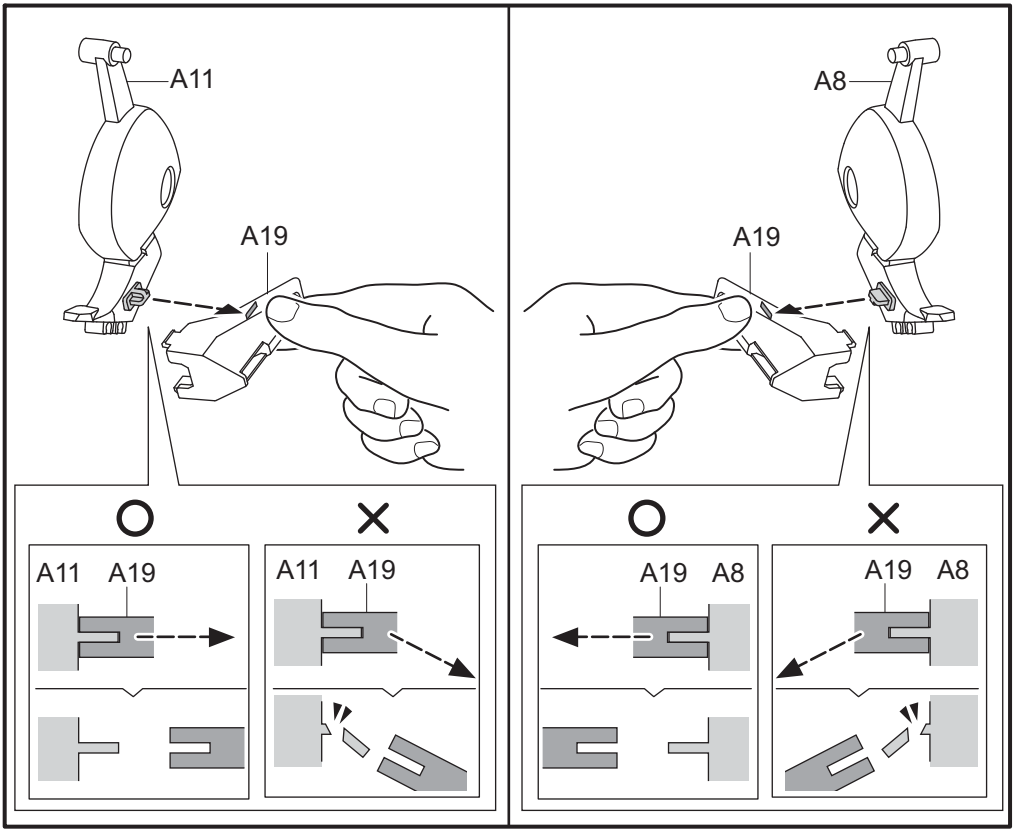
*For best results, operate on smooth surface

Sun powers leg movement and wheel rotation

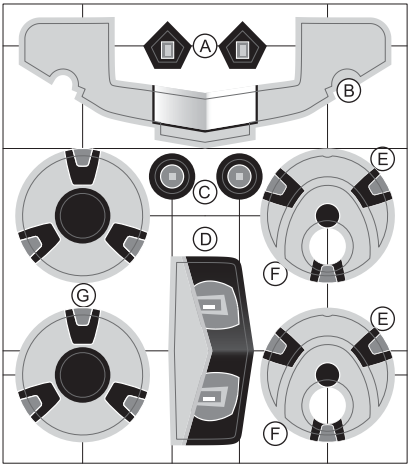
Disassemble





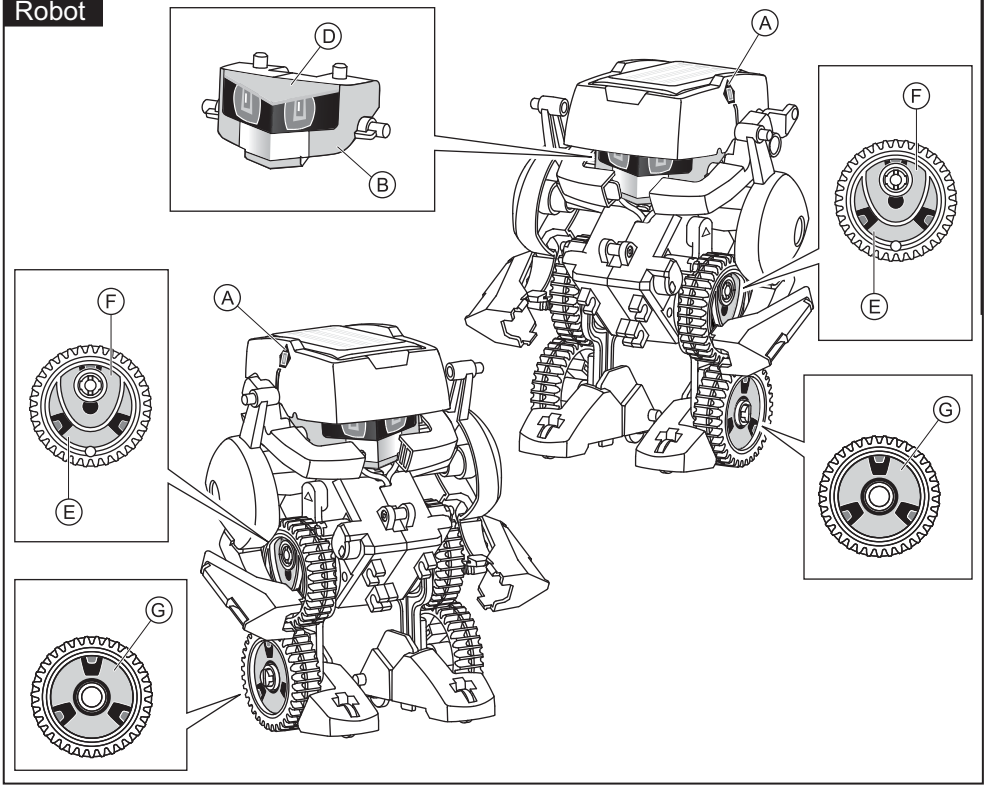


Stickers

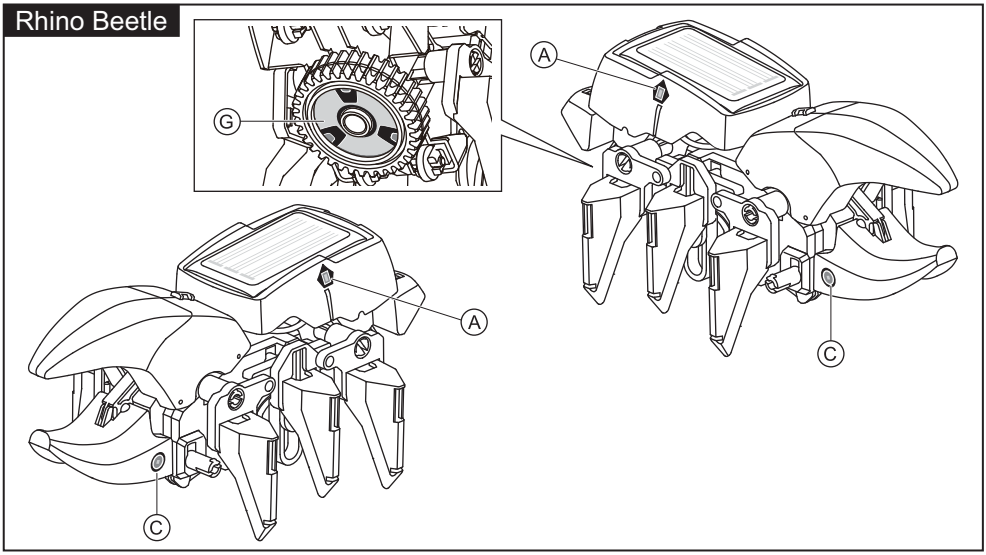


Decoration

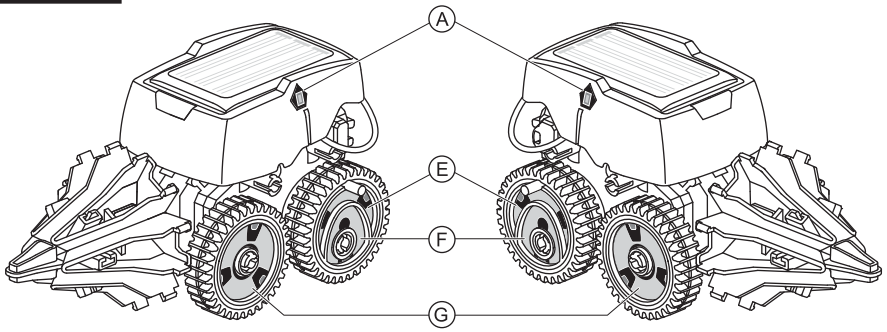
Robot



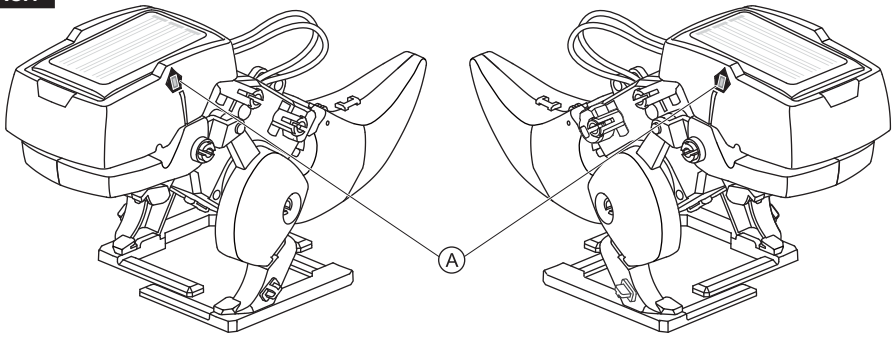
Rhino Beetle



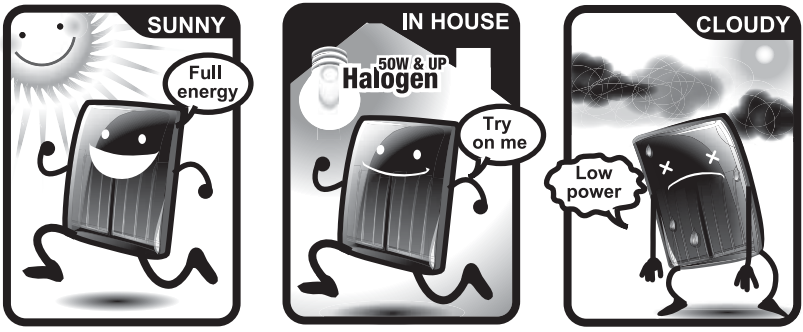
Drill Vehicle



T-Rex



It's time to have some FUN !



1. Take outside under direct sunlight. Best results are obtained when operated on a sunny day.

2. For indoor fun, use a 50 watt halogen light. The product will not run on a cloudy day, shaded locations, indirect sunlight, or under a Fluorescent light.